



Load Short Form

Entire House

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Information

	Htg	Clg	Method	Infiltration
Outside db (°F)	16	88		
Inside db (°F)	70	75	Construction quality	Simplified
Design TD (°F)	54	13	Fireplaces	Semi-loose
Daily range	-	M		1 (Semi-loose)
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	45	34		

HEATING EQUIPMENT

Make	n/a
Trade	n/a
Model	n/a
AHRI ref	n/a
Efficiency	n/a
Heating input	
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	n/a

COOLING EQUIPMENT

Make	n/a
Trade	n/a
Cond	n/a
Coil	n/a
AHRI ref	n/a
Efficiency	n/a
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
AHU 01	1551	15062	16290	1200	1200
AHU 04	1500	16513	13805	1200	1200
(Unconditioned)	268	0	0	0	0
AHU 02	1120	14510	11654	1200	1200
Mini Split	281	3149	588	400	400
AHU 03	820	10292	6764	800	800
AHU 05	1080	17413	4405	800	800
AHU 06	1367	16004	7907	800	800
AHU 07	1507	15777	5579	800	800

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



Entire House	9493	108719	61687	7200	7200
Other equip loads		24630	341		
Equip. @ 0.93 RSM			57686		
Latent cooling			11980		
TOTALS	9493	133349	69666	7200	7200

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Load Short Form (Unconditioned) Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Information

	Htg	Clg	Method	Infiltration
Outside db (°F)	16	88	Method	Simplified
Inside db (°F)	70	75	Construction quality	Semi-loose
Design TD (°F)	54	13	Fireplaces	1 (Semi-loose)
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	45	34		

HEATING EQUIPMENT

Make	n/a
Trade	n/a
Model	n/a
AHRI ref	n/a
Efficiency	n/a
Heating input	0 Btuh
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	

COOLING EQUIPMENT

Make	n/a
Trade	n/a
Cond	n/a
Coil	n/a
AHRI ref	n/a
Efficiency	n/a
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Garage	268	0	0	0	0
(Unconditioned)	268	0	0	0	0
Other equip loads		2580	0		
Equip. @ 0.93 RSM			0		
Latent cooling			0		
TOTALS	268	2580	0	0	0

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



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Feb-05-2024 - Manual JDS.rup Calc = MJ8 Front Door faces: N

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Load Short Form

AHU 01

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Information

	Htg	Clg	Method	Infiltration
Outside db (°F)	16	88	Method	Simplified
Inside db (°F)	70	75	Construction quality	Semi-loose
Design TD (°F)	54	13	Fireplaces	1 (Semi-loose)
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	45	34		

HEATING EQUIPMENT

Make	Rheem
Trade	RHEEM
Model	R95TA0701317MSA
AHRI ref	6465028
Efficiency	95 AFUE
Heating input	70000 Btuh
Heating output	68000 Btuh
Temperature rise	52 °F
Actual air flow	1200 cfm
Air flow factor	0.080 cfm/Btuh
Static pressure	0.65 in H2O
Space thermostat	

COOLING EQUIPMENT

Make	Rheem
Trade	RHEEM
Cond	RA1336AJ1NA
Coil	RCQD-3621AS+R95TA0701317MSA
AHRI ref	7508859
Efficiency	11.5 EER, 14 SEER
Sensible cooling	25200 Btuh
Latent cooling	10800 Btuh
Total cooling	36000 Btuh
Actual air flow	1200 cfm
Air flow factor	0.074 cfm/Btuh
Static pressure	0.65 in H2O
Load sensible heat ratio	0.85

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Living Room	248	4100	6450	327	475
Dining Room	420	3075	4307	245	317
Foyer/Vestibule	250	1609	387	128	28
Hallway 1	485	2903	3649	231	269
Side Entry	110	2746	1372	219	101
P.R	38	628	126	50	9

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



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AHU 01	1551	15062	16290	1200	1200
Other equip loads		2580	0		
Equip. @ 0.93 RSM			15150		
Latent cooling			2803		
TOTALS	1551	17641	17952	1200	1200

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Load Short Form

AHU 02

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Information

	Htg	Clg	Method	Infiltration
Outside db (°F)	16	88	Method	Simplified
Inside db (°F)	70	75	Construction quality	Semi-loose
Design TD (°F)	54	13	Fireplaces	1 (Semi-loose)
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	45	34		

HEATING EQUIPMENT

Make	Rheem
Trade	RHEEM
Model	R95TA0701317MSA
AHRI ref	6465028
Efficiency	95 AFUE
Heating input	70000 Btuh
Heating output	68000 Btuh
Temperature rise	52 °F
Actual air flow	1200 cfm
Air flow factor	0.083 cfm/Btuh
Static pressure	0.80 in H2O
Space thermostat	

COOLING EQUIPMENT

Make	Rheem
Trade	RHEEM
Cond	RA1336AJ1NA
Coil	RCQD-3621AS+R95TA0701317MSA
AHRI ref	7508859
Efficiency	11.5 EER, 14 SEER
Sensible cooling	25200 Btuh
Latent cooling	10800 Btuh
Total cooling	36000 Btuh
Actual air flow	1200 cfm
Air flow factor	0.103 cfm/Btuh
Static pressure	0.80 in H2O
Load sensible heat ratio	0.91

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Kitchen/Dinette	492	5311	5568	439	573
Family Room	315	5376	4058	445	418
Passover Kitchen	88	2339	1722	193	177
Study	226	1484	306	123	31
AHU 02	1120	14510	11654	1200	1200
Other equip loads		2580	0		
Equip. @ 0.93 RSM			10838		
Latent cooling			1083		
TOTALS	1120	17090	11921	1200	1200

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Load Short Form

AHU 03

Manual J Express

Job:
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2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Information

	Htg	Clg	Method	Infiltration
Outside db (°F)	16	88	Method	Simplified
Inside db (°F)	70	75	Construction quality	Semi-loose
Design TD (°F)	54	13	Fireplaces	1 (Semi-loose)
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	45	34		

HEATING EQUIPMENT

Make	Rheem
Trade	RHEEM
Model	R95TA0401317MSA
AHRI ref	6465026
Efficiency	95 AFUE
Heating input	42000 Btuh
Heating output	41000 Btuh
Temperature rise	47 °F
Actual air flow	800 cfm
Air flow factor	0.078 cfm/Btuh
Static pressure	0.55 in H2O
Space thermostat	

COOLING EQUIPMENT

Make	Rheem
Trade	RHEEM
Cond	RA1324AJ1NB
Coil	RCFL-HU2617CU+R95TA0401317MSA
AHRI ref	7507739
Efficiency	11.5 EER, 14 SEER
Sensible cooling	16800 Btuh
Latent cooling	7200 Btuh
Total cooling	24000 Btuh
Actual air flow	800 cfm
Air flow factor	0.118 cfm/Btuh
Static pressure	0.55 in H2O
Load sensible heat ratio	0.88

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Master Bedroom	373	4388	2721	341	322
Master Bath	156	2687	1133	209	134
Master W.I.C	108	546	307	42	36
Baby Room	57	105	132	8	16
Laundry Room	126	2566	2471	199	292
AHU 03	820	10292	6764	800	800
Other equip loads		2580	0		
Equip. @ 0.93 RSM			6291		
Latent cooling			917		
TOTALS	820	12871	7208	800	800

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Load Short Form

AHU 04

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Information

	Htg	Clg	Method	Infiltration
Outside db (°F)	16	88	Method	Simplified
Inside db (°F)	70	75	Construction quality	Semi-loose
Design TD (°F)	54	13	Fireplaces	1 (Semi-loose)
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	45	34		

HEATING EQUIPMENT

Make	Rheem
Trade	RHEEM
Model	R95TA0701317MSA
AHRI ref	6465028
Efficiency	95 AFUE
Heating input	70000 Btuh
Heating output	68000 Btuh
Temperature rise	52 °F
Actual air flow	1200 cfm
Air flow factor	0.073 cfm/Btuh
Static pressure	0.60 in H2O
Space thermostat	

COOLING EQUIPMENT

Make	Rheem
Trade	RHEEM
Cond	RA1336AJ1NA
Coil	RCQD-3621AS+R95TA0701317MSA
AHRI ref	7508859
Efficiency	11.5 EER, 14 SEER
Sensible cooling	25200 Btuh
Latent cooling	10800 Btuh
Total cooling	36000 Btuh
Actual air flow	1200 cfm
Air flow factor	0.087 cfm/Btuh
Static pressure	0.60 in H2O
Load sensible heat ratio	0.89

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Bedroom 4	154	2835	1947	206	169
Bathroom 2	61	674	249	49	22
Bedroom 3	217	3461	3258	252	283
Bedroom 2	171	1779	1990	129	173
Bedroom 1	210	2751	3134	200	272
Bathroom	66	121	143	9	12
Hallway 2	621	4891	3085	355	268

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AHU 04	1500	16513	13805	1200	1200
Other equip loads		3994	341		
Equip. @ 0.93 RSM			13156		
Latent cooling			1801		
TOTALS	1500	20507	14957	1200	1200

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Load Short Form

AHU 05

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Information

	Htg	Clg	Method	Infiltration
Outside db (°F)	16	88	Method	Simplified
Inside db (°F)	70	75	Construction quality	Semi-loose
Design TD (°F)	54	13	Fireplaces	1 (Semi-loose)
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	45	34		

HEATING EQUIPMENT

Make	Rheem
Trade	RHEEM
Model	R95TA0401317MSA
AHRI ref	6465026
Efficiency	95 AFUE
Heating input	42000 Btuh
Heating output	41000 Btuh
Temperature rise	47 °F
Actual air flow	800 cfm
Air flow factor	0.046 cfm/Btuh
Static pressure	0.60 in H2O
Space thermostat	

COOLING EQUIPMENT

Make	Rheem
Trade	RHEEM
Cond	RA1324AJ1NB
Coil	RCFN-HM2417TC+R95TA0401317MSA
AHRI ref	7507788
Efficiency	11.5 EER, 14 SEER
Sensible cooling	16800 Btuh
Latent cooling	7200 Btuh
Total cooling	24000 Btuh
Actual air flow	800 cfm
Air flow factor	0.182 cfm/Btuh
Static pressure	0.60 in H2O
Load sensible heat ratio	0.71

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Open Area	315	3330	612	153	111
Bedroom 02	172	3771	691	173	126
Bedroom 01	228	4123	1825	189	331
Bath 1	60	435	66	20	12
Suite 1	64	435	66	20	12
Storage	150	3890	921	179	167
Hallway 3	39	224	37	10	7
Bath 2	53	1204	186	55	34

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



Right-Suite® Universal 2023 23.0.04 RSU61951

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AHU 05	1080	17413	4405	800	800
Other equip loads		2580	0		
Equip. @ 0.93 RSM			4096		
Latent cooling			1834		
TOTALS	1080	19992	5930	800	800

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Load Short Form

AHU 06

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Information

	Htg	Clg	Method	Infiltration
Outside db (°F)	16	88		
Inside db (°F)	70	75	Construction quality	Simplified
Design TD (°F)	54	13	Fireplaces	Semi-loose
Daily range	-	M		1 (Semi-loose)
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	45	34		

HEATING EQUIPMENT

Make	Rheem
Trade	RHEEM
Model	R95TA0401317MSA
AHRI ref	6465026
Efficiency	95 AFUE
Heating input	42000 Btuh
Heating output	41000 Btuh
Temperature rise	47 °F
Actual air flow	800 cfm
Air flow factor	0.050 cfm/Btuh
Static pressure	0.60 in H2O
Space thermostat	

COOLING EQUIPMENT

Make	Rheem
Trade	RHEEM
Cond	RA1324AJ1NB
Coil	RCFL-HU2617TU+R95TA0401317MSA
AHRI ref	7507739
Efficiency	11.5 EER, 14 SEER
Sensible cooling	16800 Btuh
Latent cooling	7200 Btuh
Total cooling	24000 Btuh
Actual air flow	800 cfm
Air flow factor	0.101 cfm/Btuh
Static pressure	0.60 in H2O
Load sensible heat ratio	0.76

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Main Living	340	765	2056	38	208
Kitchen	165	3499	2679	175	271
Mast Bed/WIC	265	2536	750	127	76
Mast Bath	52	1414	320	71	32
Side Entry.	101	2797	748	140	76
Guest	139	1412	625	71	63
Guest Bed	140	2760	507	138	51
Guest Bath	48	349	81	17	8
Hall/G-Suite	117	471	141	24	14

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AHU 06	1367	16004	7907	800	800
Other equip loads		2580	0		
Equip. @ 0.93 RSM			7354		
Latent cooling			2448		
TOTALS	1367	18583	9801	800	800

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Load Short Form

AHU 07

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Information

	Htg	Clg	Method	Infiltration
Outside db (°F)	16	88		Simplified
Inside db (°F)	70	75	Construction quality	Semi-loose
Design TD (°F)	54	13	Fireplaces	1 (Semi-loose)
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	45	34		

HEATING EQUIPMENT

Make	Rheem
Trade	RHEEM
Model	R95TA0401317MSA
AHRI ref	6465026
Efficiency	95 AFUE
Heating input	42000 Btuh
Heating output	41000 Btuh
Temperature rise	47 °F
Actual air flow	800 cfm
Air flow factor	0.051 cfm/Btuh
Static pressure	0.70 in H2O
Space thermostat	

COOLING EQUIPMENT

Make	Rheem
Trade	RHEEM
Cond	RA1324AJ1NB
Coil	RCFL-HU2617CU+R95TA0401317MSA
AHRI ref	7507739
Efficiency	11.5 EER, 14 SEER
Sensible cooling	16800 Btuh
Latent cooling	7200 Btuh
Total cooling	24000 Btuh
Actual air flow	800 cfm
Air flow factor	0.143 cfm/Btuh
Static pressure	0.70 in H2O
Load sensible heat ratio	0.81

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Play Room	837	8964	3058	455	438
Toy CL	65	253	60	13	9
Bathroom 1	65	116	56	6	8
Laundry/Linen	125	400	46	20	7
Powder	33	81	56	4	8
Bedroom	180	2966	1492	150	214
St/Stair	201	2997	811	152	116

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



AHU 07	1507	15777	5579	800	800
Other equip loads		2580	0		
Equip. @ 0.93 RSM			5188		
Latent cooling			1308		
TOTALS	1507	18357	6497	800	800

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Load Short Form

Mini Split

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Information

	Htg	Clg	Method	Infiltration
Outside db (°F)	16	88	Method	Simplified
Inside db (°F)	70	75	Construction quality	Semi-loose
Design TD (°F)	54	13	Fireplaces	1 (Semi-loose)
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	45	34		

HEATING EQUIPMENT

Make	Fujitsu
Trade	FUJITSU
Model	AOUH12LUAS1
AHRI ref	206579744
Efficiency	11.3 HSPF2
Heating input	
Heating output	16000 Btuh @ 47°F
Temperature rise	0 °F
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	
Capacity balance point = -7 °F	

COOLING EQUIPMENT

Make	Fujitsu
Trade	FUJITSU
Cond	AOUH12LUAS1
Coil	ACUH12LUAS1
AHRI ref	206579744
Efficiency	12.8 EER2, 23 SEER2
Sensible cooling	8400 Btuh
Latent cooling	3600 Btuh
Total cooling	12000 Btuh
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Guest Room	184	2566	508	326	346
Bath/Suite	96	583	80	74	54
Mini Split	281	3149	588	400	400
Other equip loads		2580	0		
Equip. @ 0.93 RSM			547		
Latent cooling			332		
TOTALS	281	5728	879	400	400

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Building Analysis Entire House Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:

Belmar-Farmingdale, NJ, US
Elevation: 85 ft
Latitude: 40°N

Outdoor:

Dry bulb (°F)
Daily range (°F)
Wet bulb (°F)
Wind speed (mph)

Heating

16
-
-
15.0

Cooling

88
20 (M)
73
7.5

Indoor:

Indoor temperature (°F)
Design TD (°F)
Relative humidity (%)
Moisture difference (gr/lb)

Heating

70
54
50
45.0

Cooling

75
13
50
33.7

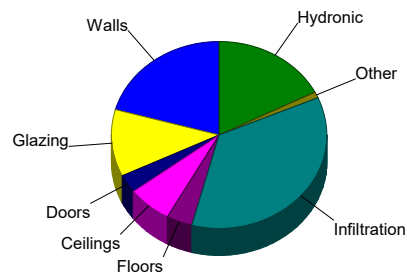
Infiltration:

Method
Construction quality
Fireplaces

Simplified
Semi-loose
1 (Semi-loose)

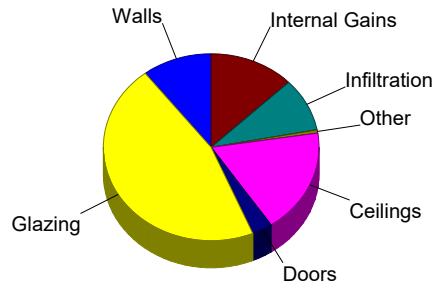
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	3.5	27485	20.6
Glazing	16.4	15425	11.6
Doors	16.4	4191	3.1
Ceilings	1.7	8903	6.7
Floors	1.0	5228	3.9
Infiltration	5.9	47488	35.6
Ducts		0	0
Piping		23216	17.4
Humidification		0	0
Ventilation		1415	1.1
Adjustments		0	0
Total		133349	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	0.8	6487	10.5
Glazing	30.2	28462	45.9
Doors	7.5	1901	3.1
Ceilings	2.2	11180	18.0
Floors	0.0	17	0.0
Infiltration	0.7	5721	9.2
Ducts		0	0
Ventilation		341	0.5
Internal gains		7920	12.8
Blower		0	0
Adjustments		0	0
Total		62028	100.0



Latent Cooling Load = 11980 Btuh
Overall U-value = 0.063 Btuh/ft²·°F, Window / Floor Area = 9.9 %

Data entries checked.





Building Analysis (Unconditioned) Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:

Belmar-Farmingdale, NJ, US
Elevation: 85 ft
Latitude: 40°N

Outdoor:

Dry bulb (°F)
Daily range (°F)
Wet bulb (°F)
Wind speed (mph)

Heating

16
-
-
15.0

Cooling

88
20 (M)
73
7.5

Indoor:

Indoor temperature (°F)
Design TD (°F)
Relative humidity (%)
Moisture difference (gr/lb)

Heating

70
54
50
45.0

Cooling

75
13
50
33.7

Infiltration:

Method
Construction quality
Fireplaces

Simplified
Semi-loose
1 (Semi-loose)

Heating

Component	Btuh/ft²	Btuh	% of load
Walls	0	0	0
Glazing	0	0	0
Doors	0	0	0
Ceilings	0	0	0
Floors	0	0	0
Infiltration	0	0	0
Ducts		0	0
Piping		2580	100.0
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		2580	100.0

Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	0	0	0
Glazing	0	0	0
Doors	0	0	0
Ceilings	0	0	0
Floors	0	0	0
Infiltration	0	0	0
Ducts		0	0
Ventilation		0	0
Internal gains		0	0
Blower		0	0
Adjustments		0	0
Total		0	0

Latent Cooling Load = 0 Btuh
Overall U-value = 0.078 Btuh/ft²·°F, Window / Floor Area = 18.6 %

Data entries checked.





Building Analysis

AHU 01

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:

Belmar-Farmingdale, NJ, US
Elevation: 85 ft
Latitude: 40°N

Outdoor:

Dry bulb (°F)
Daily range (°F)
Wet bulb (°F)
Wind speed (mph)

Heating

16
-
-
15.0

Cooling

88
20 (M)
73
7.5

Indoor:

Indoor temperature (°F)
Design TD (°F)
Relative humidity (%)
Moisture difference (gr/lb)

Heating

70
54
50
45.0

Cooling

75
13
50
33.7

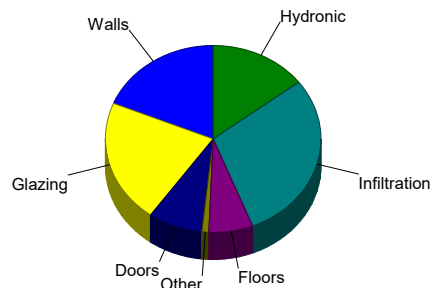
Infiltration:

Method
Construction quality
Fireplaces

Simplified
Semi-loose
1 (Semi-loose)

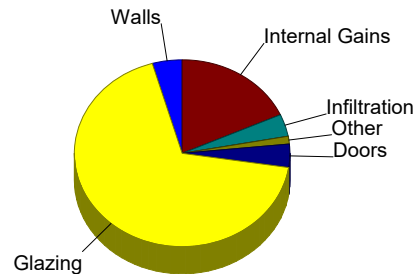
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	4.0	3311	18.8
Glazing	17.3	3768	21.4
Doors	21.1	1446	8.2
Ceilings	1.8	182	1.0
Floors	1.1	1168	6.6
Infiltration	6.2	5187	29.4
Ducts		0	0
Piping		2580	14.6
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		17641	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	0.9	727	4.5
Glazing	50.9	11092	68.1
Doors	9.6	656	4.0
Ceilings	2.2	216	1.3
Floors	0.0	3	0.0
Infiltration	0.7	625	3.8
Ducts		0	0
Ventilation		0	0
Internal gains		2970	18.2
Blower		0	0
Adjustments		0	0
Total		16290	100.0



Latent Cooling Load = 2803 Btuh
Overall U-value = 0.079 Btuh/ft²·°F, Window / Floor Area = 14.1 %

Data entries checked.





Building Analysis

AHU 02

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:

Belmar-Farmingdale, NJ, US
Elevation: 85 ft
Latitude: 40°N

Outdoor:

Dry bulb (°F)
Daily range (°F)
Wet bulb (°F)
Wind speed (mph)

Heating

16
-
-
15.0

Cooling

88
20 (M)
73
7.5

Indoor:

Indoor temperature (°F)
Design TD (°F)
Relative humidity (%)
Moisture difference (gr/lb)

Heating

70
54
50
45.0

Cooling

75
13
50
33.7

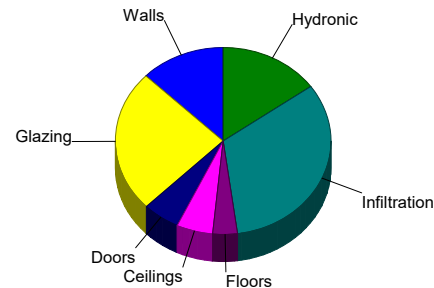
Infiltration:

Method
Construction quality
Fireplaces

Simplified
Semi-loose
1 (Semi-loose)

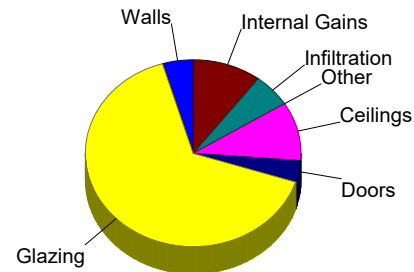
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	3.5	2176	12.7
Glazing	17.3	4211	24.6
Doors	21.1	955	5.6
Ceilings	1.8	939	5.5
Floors	1.1	627	3.7
Infiltration	6.2	5603	32.8
Ducts		0	0
Piping		2580	15.1
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		17090	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	0.9	536	4.6
Glazing	31.3	7625	65.4
Doors	9.6	433	3.7
Ceilings	2.3	1182	10.1
Floors	0.0	2	0.0
Infiltration	0.7	675	5.8
Ducts		0	0
Ventilation		0	0
Internal gains		1200	10.3
Blower		0	0
Adjustments		0	0
Total		11654	100.0



Latent Cooling Load = 1083 Btuh
Overall U-value = 0.083 Btuh/ft²·°F, Window / Floor Area = 21.8 %

Data entries checked.





Building Analysis

AHU 03

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

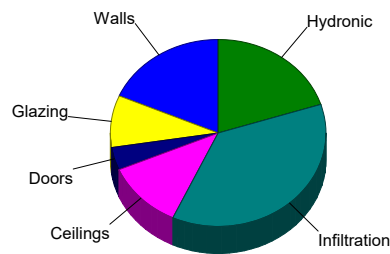
For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation: 85 ft		Design TD (°F)		54	13
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.0	33.7
Outdoor:	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method	Simplified	
Daily range (°F)	-	20 (M)	Construction quality	Semi-loose	
Wet bulb (°F)	-	73	Fireplaces	1 (Semi-loose)	
Wind speed (mph)	15.0	7.5			

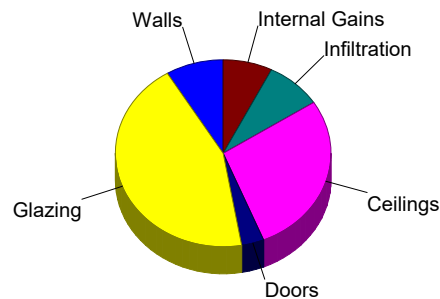
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	3.5	2382	18.5
Glazing	17.3	1156	9.0
Doors	21.1	505	3.9
Ceilings	1.8	1506	11.7
Floors	0	0	0
Infiltration	6.2	4743	36.9
Ducts		0	0
Piping		2580	20.0
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		12871	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	0.9	587	8.7
Glazing	44.6	2981	44.1
Doors	9.6	229	3.4
Ceilings	2.3	1896	28.0
Floors	0	0	0
Infiltration	0.7	571	8.4
Ducts		0	0
Ventilation		0	0
Internal gains		500	7.4
Blower		0	0
Adjustments		0	0
Total		6764	100.0



Latent Cooling Load = 917 Btuh
Overall U-value = 0.065 Btuh/ft²·°F, Window / Floor Area = 8.2 %

Data entries checked.





Building Analysis

AHU 04

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

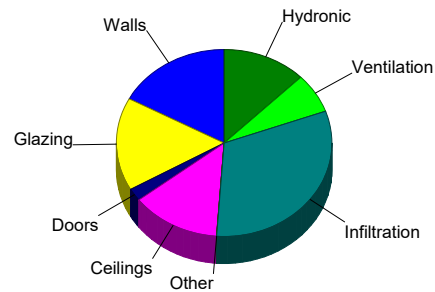
For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation: 85 ft		Design TD (°F)		54	13
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.0	33.7
Outdoor:	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method	Simplified	
Daily range (°F)	-	20 (M)	Construction quality	Semi-loose	
Wet bulb (°F)	-	73	Fireplaces	1 (Semi-loose)	
Wind speed (mph)	15.0	7.5			

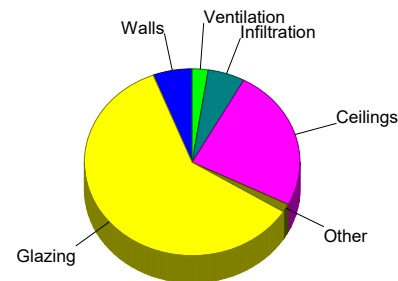
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	3.7	3518	17.2
Glazing	17.3	3298	16.1
Doors	21.1	449	2.2
Ceilings	1.8	2754	13.4
Floors	0.9	3	0.0
Infiltration	6.2	6491	31.7
Ducts		0	0
Piping		2580	12.6
Humidification		0	0
Ventilation		1415	6.9
Adjustments		0	0
Total		20507	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	0.9	833	5.9
Glazing	44.6	8518	60.2
Doors	9.6	204	1.4
Ceilings	2.3	3467	24.5
Floors	0.2	1	0.0
Infiltration	0.7	782	5.5
Ducts		0	0
Ventilation		341	2.4
Internal gains		0	0
Blower		0	0
Adjustments		0	0
Total		14146	100.0



Latent Cooling Load = 1801 Btuh
Overall U-value = 0.069 Btuh/ft²·°F, Window / Floor Area = 12.7 %

Data entries checked.





Building Analysis

AHU 05

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:

Belmar-Farmingdale, NJ, US
Elevation: 85 ft
Latitude: 40°N

Outdoor:

Dry bulb (°F)
Daily range (°F)
Wet bulb (°F)
Wind speed (mph)

Heating

16
-
-
15.0

Cooling

88
20 (M)
73
7.5

Indoor:

Indoor temperature (°F)
Design TD (°F)
Relative humidity (%)
Moisture difference (gr/lb)

Heating

70
54
50
45.0

Cooling

75
13
50
33.7

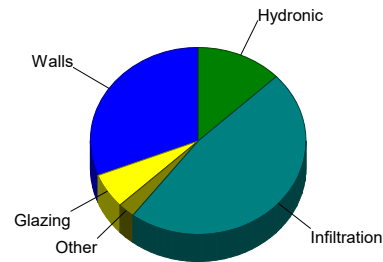
Infiltration:

Method
Construction quality
Fireplaces

Simplified
Semi-loose
1 (Semi-loose)

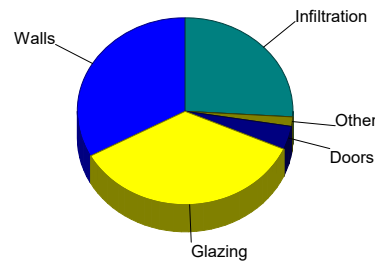
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	3.7	6196	31.0
Glazing	17.3	1212	6.1
Doors	21.1	393	2.0
Ceilings	1.8	51	0.3
Floors	1.0	73	0.4
Infiltration	6.2	9486	47.5
Ducts		0	0
Piping		2580	12.9
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		19992	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	0.9	1450	32.9
Glazing	22.3	1561	35.4
Doors	9.6	178	4.0
Ceilings	2.2	61	1.4
Floors	0.1	11	0.2
Infiltration	0.7	1143	25.9
Ducts		0	0
Ventilation		0	0
Internal gains		0	0
Blower		0	0
Adjustments		0	0
Total		4405	100.0



Latent Cooling Load = 1834 Btuh
Overall U-value = 0.079 Btuh/ft²·°F, Window / Floor Area = 6.5 %

Data entries checked.





Building Analysis

AHU 06

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:

Belmar-Farmingdale, NJ, US
Elevation: 85 ft
Latitude: 40°N

Outdoor:

Dry bulb (°F)
Daily range (°F)
Wet bulb (°F)
Wind speed (mph)

Heating

16
-
-
15.0

Cooling

88
20 (M)
73
7.5

Indoor:

Indoor temperature (°F)
Design TD (°F)
Relative humidity (%)
Moisture difference (gr/lb)

Heating

70
54
50
45.0

Cooling

75
13
50
33.7

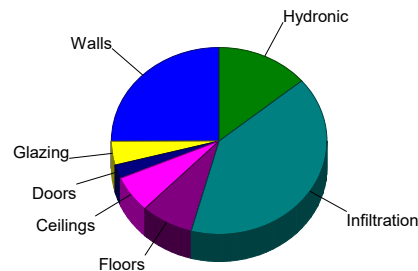
Infiltration:

Method
Construction quality
Fireplaces

Simplified
Semi-loose
1 (Semi-loose)

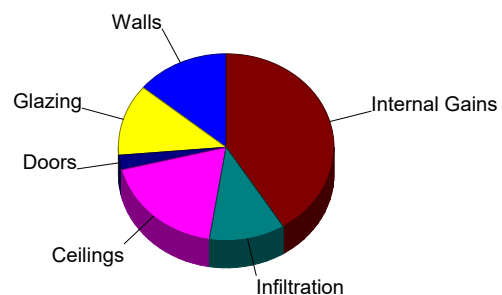
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	3.6	4656	25.1
Glazing	17.3	760	4.1
Doors	21.1	442	2.4
Ceilings	1.8	1180	6.3
Floors	1.1	1476	7.9
Infiltration	6.2	7489	40.3
Ducts		0	0
Piping		2580	13.9
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		18583	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	0.9	1104	14.0
Glazing	22.3	980	12.4
Doors	9.6	201	2.5
Ceilings	2.3	1470	18.6
Floors	0	0	0
Infiltration	0.7	902	11.4
Ducts		0	0
Ventilation		0	0
Internal gains		3250	41.1
Blower		0	0
Adjustments		0	0
Total		7907	100.0



Latent Cooling Load = 2448 Btuh
Overall U-value = 0.047 Btuh/ft²·°F, Window / Floor Area = 3.2 %

WARNING: window to floor area ratio = 3.2% - less than 5%.





Building Analysis

AHU 07

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:

Belmar-Farmingdale, NJ, US
Elevation: 85 ft
Latitude: 40°N

Outdoor:

Dry bulb (°F)
Daily range (°F)
Wet bulb (°F)
Wind speed (mph)

Heating

16
-
-
15.0

Cooling

88
20 (M)
73
7.5

Indoor:

Indoor temperature (°F)
Design TD (°F)
Relative humidity (%)
Moisture difference (gr/lb)

Heating

70
54
50
45.0

Cooling

75
13
50
33.7

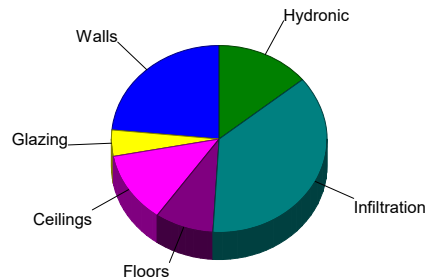
Infiltration:

Method
Construction quality
Fireplaces

Simplified
Semi-loose
1 (Semi-loose)

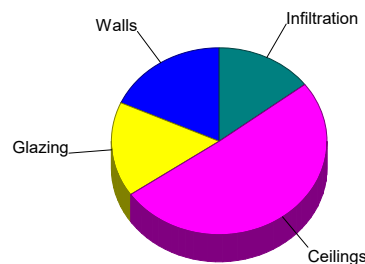
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	3.7	4305	23.4
Glazing	17.3	829	4.5
Doors	0	0	0
Ceilings	1.8	2248	12.2
Floors	1.1	1627	8.9
Infiltration	6.2	6768	36.9
Ducts		0	0
Piping		2580	14.1
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		18357	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	0.9	1018	18.2
Glazing	19.1	915	16.4
Doors	0	0	0
Ceilings	2.3	2831	50.7
Floors	0	0	0
Infiltration	0.7	815	14.6
Ducts		0	0
Ventilation		0	0
Internal gains		0	0
Blower		0	0
Adjustments		0	0
Total		5579	100.0



Latent Cooling Load = 1308 Btuh

Overall U-value = 0.042 Btuh/ft²·°F, Window / Floor Area = 3.2 %

WARNING: window to floor area ratio = 3.2% - less than 5%.



Right-Suite® Universal 2023 23.0.04 RSU61951

Feb-05-2024 - Manual JDS.rup Calc = MJ8 Front Door faces: N

2024-Feb-05 15:05:41

Page 9



Building Analysis Mini Split Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:

Belmar-Farmingdale, NJ, US
Elevation: 85 ft
Latitude: 40°N

Outdoor:

Dry bulb (°F)
Daily range (°F)
Wet bulb (°F)
Wind speed (mph)

Heating

16
-
-
15.0

Cooling

88
20 (M)
73
7.5

Indoor:

Indoor temperature (°F)
Design TD (°F)
Relative humidity (%)
Moisture difference (gr/lb)

Heating

70
54
50
45.0

Cooling

75
13
50
33.7

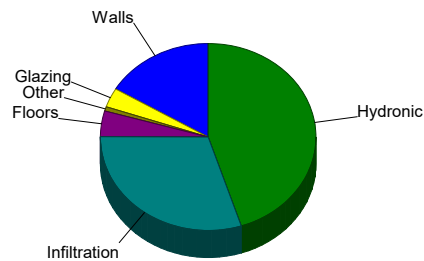
Infiltration:

Method
Construction quality
Fireplaces

Simplified
Semi-loose
1 (Semi-loose)

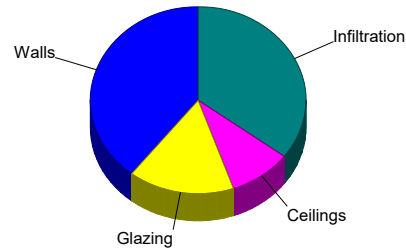
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	3.5	941	16.4
Glazing	17.3	191	3.3
Doors	0	0	0
Ceilings	1.8	44	0.8
Floors	1.1	253	4.4
Infiltration	6.2	1720	30.0
Ducts		0	0
Piping		2580	45.0
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		5728	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	0.9	232	39.4
Glazing	8.5	94	15.9
Doors	0	0	0
Ceilings	2.3	55	9.4
Floors	0	0	0
Infiltration	0.7	207	35.2
Ducts		0	0
Ventilation		0	0
Internal gains		0	0
Blower		0	0
Adjustments		0	0
Total		588	100.0



Latent Cooling Load = 332 Btuh

Overall U-value = 0.049 Btuh/ft²·°F, Window / Floor Area = 3.9 %

WARNING: window to floor area ratio = 3.9% - less than 5%.





Right-J8® Form J1 Entire House Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room			Entire House						AHU 01					
2 Running Feet of Exposed Wall			998.5 ft						125.0 ft					
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft		24175.8 ft ²		9.0 ft		3427.6 ft ²					
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)					9492.8 ft ²				1551.3 ft ²					
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		9467.8 ft ²		0 °		1551.3 ft ²					
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh				
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg		
6	Wall	12F-0sw	n	3.51	0.86	1832	5902	1454		158	488	120		
	Glaz	Window	n	17.28	8.46	80	1378	675		18	317	155		
	Glaz	Window	n	17.28	8.46	6	106	52		0	0	0		
	Glaz	Window	n	17.28	8.46	8	140	68		0	0	0		
	Glaz	Window	n	17.28	8.46	23	403	198		0	0	0		
	Glaz	Window	n	17.28	8.46	33	564	276		0	0	0		
11	Wall	12F-0sw	e	3.40	0.84	2277	6622	1631		68	195	48		
	Glaz	Window	e	17.28	40.23	8	141	328		0	0	0		
	Glaz	Window	e	17.28	40.23	32	553	1287		0	0	0		
	Glaz	Window	e	17.28	40.23	10	173	402		0	0	0		
	Glaz	Window	e	17.28	40.23	12	207	483		12	207	483		
	Glaz	Window	e	17.28	40.23	23	403	939		0	0	0		
	Glaz	Window	e	17.28	40.23	58	1008	2347		0	0	0		
	Glaz	Window	e	17.28	40.23	27	472	1098		0	0	0		
	Glaz	Window	e	17.28	40.23	27	472	1098		0	0	0		
	Glaz	Window	e	17.28	40.23	27	472	1098		0	0	0		
	Glaz	Window	e	17.28	40.23	17	287	668		0	0	0		
	Glaz	Window	e	17.28	40.23	65	1131	2632		0	0	0		
	Door	11D0	e	21.06	9.55	24	505	229		0	0	0		
	Wall	12F-0sw	s	3.26	0.80	1764	4923	1213		131	374	92		
	Glaz	Window	s	17.28	16.71	70	1215	1175		0	0	0		
	Glaz	Window	s	17.28	13.59	19	332	261		0	0	0		
	Glaz	Window	s	17.28	13.59	20	337	265		0	0	0		
	Door	11D0	s	13.00	5.90	146	1902	863		24	505	229		
	Wall	12F-0sw	w	3.26	0.80	2232	5909	1455		486	963	237		
	Glaz	Window	w	13.65	31.79	238	3243	7550		188	3243	7550		
	Glaz	Window	w	17.28	40.23	20	349	813		0	0	0		
	Glaz	Window	w	17.28	40.23	27	472	1098		0	0	0		
	Glaz	Window	w	17.28	40.23	91	1568	3650		0	0	0		
	Door	11D0	w	21.06	9.55	43	899	408		24	505	229		
	Wall	12C-0sw	-	4.91	0.87	882	4128	734		284	1292	230		
	Door	11D0	n	21.06	9.55	42	885	401		21	435	197		
	Ceil	16A-28ad	-	1.75	2.20	5042	8819	11105		80	147	186		
	Ceil	16B-30ad	-	1.73	1.54	49	84	75		20	35	31		
	Flor	19C-19cscp	-	0.92	0.22	48	44	11		0	0	0		
	Flor	19C-19cscp	-	0.92	0.22	24	22	5		14	13	3		
	Flor	19C-19cscp	-	0.92	0.22	4	3	1		0	0	0		
	Flor	21A-32t	-	1.08	0.00	2874	3103	0		0	0	0		
	Flor	21A-32t	-	1.08	0.00	27	29	0		0	0	0		
	Flor	21A-32t	-	0.95	0.00	2139	2026	0		1070	1155	0		
12	Infiltration	Heating Load (Btuh)		Effect ACH		0.58	WAR	47488		WAR	5187			
		Sensible Load (Btuh)				0.29	1.00		5721	1.00		625		
		Latent Load (Btuh)										1003		
13	Internal	a Occupants at 230 and 200 Btuh				14		3220	2800	9		2070	1800	
		b Scenario number						4700				900		
		c Default Adjustments												
		d Custom Appliances						0	0			0	0	
		e Plants							0			0	0	
14	Subtotals	Sum lines 6 through 12						108719	61687	11980		15062	16290	2803
15	Duct Loads	EHLF & ESGF		0	0			0	0		0	0		
		ELG							0				0	
16	Ventilation Loads	Vent Cfm	24	E Cfm	24			1415	341	546		0	0	0
17	Winter Humidification Load	Gal/Day		0				0				0		
18	Piping Load							23216				2580		
19	Blower Heat								0			0		
20	AED Excursion & Latent Moisture Migration Load								0			2904		
21	Total Load	Sum lines 13 through 19						133349	62028	11980		17641	16290	2803

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 Entire House Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room			AHU 04			(Unconditioned)							
2 Running Feet of Exposed Wall			130.5 ft			44.5 ft							
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft	3987.5 ft ²		9.0 ft	663.3 ft ²						
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			1499.8 ft ²			267.5 ft ²							
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °	1499.8 ft ²		0 °	242.5 ft ²						
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh			
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg	
6	Wall	12F-0sw	n	3.51	0.86	297	1021	251		0	0	0	
	Glaz	Window	n	17.28	8.46	0	0	0		0	0	0	
	Glaz	Window	n	17.28	8.46	6	106	52		0	0	0	
	Glaz	Window	n	17.28	8.46	0	0	0		0	0	0	
11	Glaz	Window	n	17.28	8.46	0	0	0		0	0	0	
	Glaz	Window	n	17.28	8.46	0	0	0		0	0	0	
	Wall	12F-0sw	e	3.40	0.84	99	252	62		59	0	0	
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0	
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0	
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0	
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0	
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0	
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0	
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0	
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0	
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0	
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0	
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0	
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0	
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0	
	Glaz	Window	e	17.28	40.23	27	472	1098		0	0	0	
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0	
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0	
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0	
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0	
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0	
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0	
	Door	11D0	e	21.06	9.55	0	0	0		0	0	0	
	Wall	12F-0sw	s	3.26	0.80	171	533	131		162	0	0	
	Glaz	Window	s	17.28	16.71	0	0	0		0	0	0	
	Glaz	Window	s	17.28	13.59	19	332	261		0	0	0	
	Glaz	Window	s	17.28	13.59	0	0	0		0	0	0	
	Door	11D0	s	13.00	5.90	0	0	0		56	0	0	
	Wall	12F-0sw	w	3.26	0.80	486	1221	301		180	0	0	
	Glaz	Window	w	13.65	31.79	0	0	0		50	0	0	
	Glaz	Window	w	17.28	40.23	20	349	813		0	0	0	
	Glaz	Window	w	17.28	40.23	27	472	1098		0	0	0	
	Glaz	Window	w	17.28	40.23	91	1568	3650		0	0	0	
	Door	11D0	w	21.06	9.55	0	0	0		0	0	0	
	Wall	12C-0sw	-	4.91	0.87	122	492	88		0	0	0	
	Door	11D0	n	21.06	9.55	21	449	204		0	0	0	
	Ceil	16A-28ad	-	1.75	2.20	1500	2754	3467		239	0	0	
	Ceil	16B-30ad	-	1.73	1.54	0	0	0		0	0	0	
	Flor	19C-19cscp	-	0.92	0.22	0	0	0		0	0	0	
	Flor	19C-19cscp	-	0.92	0.22	0	0	0		0	0	0	
	Flor	19C-19cscp	-	0.92	0.22	4	3	1		0	0	0	
	Flor	21A-32t	-	1.08	0.00	0	0	0		0	0	0	
	Flor	21A-32t	-	1.08	0.00	0	0	0		0	0	0	
	Flor	21A-32t	-	0.95	0.00	0	0	0		263	0	0	
12	Infiltration	Heating Load (Btuh)		Effect ACH	0.58	WAR 1.00	6491			WAR 1.00	0		
		Sensible Load (Btuh)					782				0		
		Latent Load (Btuh)					1255				0		
13	Internal	a Occupants at 230 and 200 Btuh				0	0	0	0	0	0	0	
		b Scenario number				0	0	0	0	0	0		
		c Default Adjustments				0	0	0	0	0	0		
		d Custom Appliances				0	0	0	0	0	0		
		e Plants				0	0	0	0	0	0		
14	Subtotals	Sum lines 6 through 12					16513	13805	1255		0	0	0
15	Duct Loads	EHLF & ESGF		0	0		0	0		0	0	0	
		ELG						0				0	
16	Ventilation Loads	Vent Cfm	24	E Cfm	24		1415	341	546		0	0	0
17	Winter Humidification Load	Gal/Day		0			0				0		
18	Piping Load						2580				2580		
19	Blower Heat						0				0		
20	AED Excursion & Latent Moisture Migration Load						1547				0		
21	Total Load	Sum lines 13 through 19					20507	14146	1801		2580	0	0

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 Entire House Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room			AHU 02			Mini Split							
2 Running Feet of Exposed Wall			101.0 ft			31.0 ft							
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft	2138.4 ft ²	9.0 ft	876.0 ft ²							
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)				1120.0 ft ²		280.5 ft ²							
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °	1120.0 ft ²	0 °	280.5 ft ²							
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh			
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg	
6	Wall	12F-0sw	n	3.51	0.86	230	683	168		162	530	130	
	Glaz	Window	n	17.28	8.46	18	317	155		11	191	94	
	Glaz	Window	n	17.28	8.46	0	0	0		0	0	0	
	Glaz	Window	n	17.28	8.46	0	0	0		0	0	0	
	Glaz	Window	n	17.28	8.46	0	0	0		0	0	0	
	Glaz	Window	n	17.28	8.46	17	287	141		0	0	0	
	Wall	12F-0sw	e	3.40	0.84	423	957	236		117	411	101	
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0	
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0	
	Glaz	Window	e	17.28	40.23	10	173	402		0	0	0	
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0	
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0	
	Glaz	Window	e	17.28	40.23	58	1008	2347		0	0	0	
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0	
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0	
	Glaz	Window	e	17.28	40.23	17	287	668		0	0	0	
	Glaz	Window	e	17.28	40.23	65	1131	2632		0	0	0	
	Door	11D0	e	21.06	9.55	0	0	0		0	0	0	
	Wall	12F-0sw	s	3.26	0.80	257	536	132		0	0	0	
	Glaz	Window	s	17.28	16.71	58	1008	975		0	0	0	
	Glaz	Window	s	17.28	13.59	0	0	0		0	0	0	
	Glaz	Window	s	17.28	13.59	0	0	0		0	0	0	
	Door	11D0	s	13.00	5.90	45	955	433		0	0	0	
	Wall	12F-0sw	w	3.26	0.80	0	0	0		0	0	0	
	Glaz	Window	w	13.65	31.79	0	0	0		0	0	0	
	Glaz	Window	w	17.28	40.23	0	0	0		0	0	0	
	Glaz	Window	w	17.28	40.23	0	0	0		0	0	0	
	Glaz	Window	w	17.28	40.23	0	0	0		0	0	0	
	Door	11D0	w	21.06	9.55	0	0	0		0	0	0	
	Wall	12C-0sw	-	4.91	0.87	0	0	0		0	0	0	
	Door	11D0	n	21.06	9.55	0	0	0		0	0	0	
	Ceil	16A-28ad	-	1.75	2.20	511	939	1182		24	44	55	
	Ceil	16B-30ad	-	1.73	1.54	0	0	0		0	0	0	
	Flor	19C-19cscp	-	0.92	0.22	0	0	0		0	0	0	
	Flor	19C-19cscp	-	0.92	0.22	10	9	2		0	0	0	
	Flor	19C-19cscp	-	0.92	0.22	0	0	0		0	0	0	
	Flor	21A-32t	-	1.08	0.00	0	0	0		0	0	0	
	Flor	21A-32t	-	1.08	0.00	0	0	0		0	0	0	
	Flor	21A-32t	-	0.95	0.00	572	618	0		235	253	0	
12	Infiltration	Heating Load (Btuh)		Effect ACH	0.58	WAR 1.00	5603			WAR 1.00	1720		
		Sensible Load (Btuh)						675			207		
		Latent Load (Btuh)							1083			332	
13	Internal	a Occupants at 230 and 200 Btuh				0	0	0	0	0	0	0	
		b Scenario number					1200				0		
		c Default Adjustments											
		d Custom Appliances					0				0	0	
		e Plants									0	0	
14	Subtotals	Sum lines 6 through 12					14510	11654	1083		3149	588	332
15	Duct Loads	EHLF & ESGF		0	0		0	0		0	0		
		ELG							0			0	
16	Ventilation Loads	Vent Cfm	24	E Cfm	24		0	0	0		0	0	0
17	Winter Humidification Load	Gal/Day		0			0			0			
18	Piping Load						2580			2580			
19	Blower Heat						0			0			
20	AED Excursion & Latent Moisture Migration Load						305			0			
21	Total Load	Sum lines 13 through 19					17090	11654	1083		5728	588	332

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 Entire House Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room			AHU 03			AHU 05								
2 Running Feet of Exposed Wall			85.5 ft			196.0 ft								
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft	2156.0 ft ²		9.0 ft	3383.0 ft ²							
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			820.0 ft ²			1080.3 ft ²								
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °	820.0 ft ²		0 °	1080.3 ft ²							
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh				
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg		
6	Wall	12F-0sw	n	3.51	0.86	135	445	110		302	976	240		
	Glaz	Window	n	17.28	8.46	0	0	0		0	0	0		
	Glaz	Window	n	17.28	8.46	0	0	0		0	0	0		
	Glaz	Window	n	17.28	8.46	8	140	68		0	0	0		
11	Glaz	Window	n	17.28	8.46	0	0	0		23	403	198		
	Glaz	Window	n	17.28	8.46	0	0	0		0	0	0		
	Wall	12F-0sw	e	3.40	0.84	441	1257	310		464	1531	377		
	Glaz	Window	e	17.28	40.23	8	141	328		0	0	0		
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0		
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0		
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0		
	Glaz	Window	e	17.28	40.23	23	403	939		0	0	0		
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0		
	Glaz	Window	e	17.28	40.23	27	472	1098		0	0	0		
	Glaz	Window	e	17.28	40.23	0	0	0		27	472	1098		
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0		
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0		
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0		
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0		
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0		
	Door	11D0	e	21.06	9.55	24	505	229		0	0	0		
	Wall	12F-0sw	s	3.26	0.80	194	679	167		302	990	244		
	Glaz	Window	s	17.28	16.71	0	0	0		0	0	0		
	Glaz	Window	s	17.28	13.59	0	0	0		0	0	0		
	Glaz	Window	s	17.28	13.59	0	0	0		20	337	265		
	Door	11D0	s	13.00	5.90	0	0	0		0	0	0		
	Wall	12F-0sw	w	3.26	0.80	0	0	0		473	1593	392		
	Glaz	Window	w	13.65	31.79	0	0	0		0	0	0		
	Glaz	Window	w	17.28	40.23	0	0	0		0	0	0		
	Glaz	Window	w	17.28	40.23	0	0	0		0	0	0		
	Glaz	Window	w	17.28	40.23	0	0	0		0	0	0		
	Door	11D0	w	21.06	9.55	0	0	0		19	393	178		
	Wall	12C-0sw	-	4.91	0.87	0	0	0		225	1106	197		
	Door	11D0	n	21.06	9.55	0	0	0		0	0	0		
	Ceil	16A-28ad	-	1.75	2.20	820	1506	1896		23	43	54		
	Ceil	16B-30ad	-	1.73	1.54	0	0	0		5	9	8		
	Flor	19C-19cscp	-	0.92	0.22	0	0	0		48	44	11		
	Flor	19C-19cscp	-	0.92	0.22	0	0	0		0	0	0		
	Flor	19C-19cscp	-	0.92	0.22	0	0	0		0	0	0		
	Flor	21A-32t	-	1.08	0.00	0	0	0		0	0	0		
	Flor	21A-32t	-	1.08	0.00	0	0	0		27	29	0		
	Flor	21A-32t	-	0.95	0.00	0	0	0		0	0	0		
12	Infiltration	Heating Load (Btuh)		Effect ACH		0.58	WAR	1.00	4743	WAR	1.00	9486		
		Sensible Load (Btuh)				0.29						1143		
		Latent Load (Btuh)										1834		
13	Internal	a Occupants at 230 and 200 Btuh				0			0			0		
		b Scenario number							500			0		
		c Default Adjustments										0		
		d Custom Appliances							0			0		
		e Plants							0			0		
14	Subtotals	Sum lines 6 through 12							10292	6764	917	17413	4405	1834
15	Duct Loads	EHLF & ESGF		0	0				0			0		
		ELG										0		
16	Ventilation Loads	Vent Cfm	24	E Cfm	24				0	0	0	0		
17	Winter Humidification Load	Gal/Day		0					0			0		
18	Piping Load								2580			2580		
19	Blower Heat								0			0		
20	AED Excursion & Latent Moisture Migration Load								547			0		
21	Total Load	Sum lines 13 through 19							12871	6764	917	19992	4405	1834

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 Entire House Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room			AHU 06			AHU 07								
2 Running Feet of Exposed Wall			149.0 ft			136.0 ft								
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft	3972.5 ft ²	9.0 ft	3571.5 ft ²								
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)				1367.0 ft ²		1506.5 ft ²								
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °	1367.0 ft ²	0 °	1506.5 ft ²								
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh				
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg		
6	Wall	12F-0sw	n	3.51	0.86	248	813	200		302	946	233		
	Glaz	Window	n	17.28	8.46	0	0	0		32	553	271		
	Glaz	Window	n	17.28	8.46	0	0	0		0	0	0		
	Glaz	Window	n	17.28	8.46	0	0	0		0	0	0		
	Glaz	Window	n	17.28	8.46	0	0	0		0	0	0		
	Glaz	Window	n	17.28	8.46	0	0	0		0	0	0		
	Glaz	Window	n	17.28	8.46	16	276	135		0	0	0		
	Wall	12F-0sw	e	3.40	0.84	491	1665	410		117	355	87		
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0		
	Glaz	Window	e	17.28	40.23	16	276	644		16	276	644		
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0		
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0		
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0		
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0		
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0		
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0		
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0		
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0		
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0		
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0		
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0		
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0		
	Door	11D0	e	21.06	9.55	0	0	0		0	0	0		
	Wall	12F-0sw	s	3.26	0.80	356	1132	279		194	679	167		
	Glaz	Window	s	17.28	16.71	12	207	200		0	0	0		
	Glaz	Window	s	17.28	13.59	0	0	0		0	0	0		
	Glaz	Window	s	17.28	13.59	0	0	0		0	0	0		
	Door	11D0	s	13.00	5.90	21	442	201		0	0	0		
	Wall	12F-0sw	w	3.26	0.80	122	426	105		486	1706	420		
	Glaz	Window	w	13.65	31.79	0	0	0		0	0	0		
	Glaz	Window	w	17.28	40.23	0	0	0		0	0	0		
	Glaz	Window	w	17.28	40.23	0	0	0		0	0	0		
	Glaz	Window	w	17.28	40.23	0	0	0		0	0	0		
	Door	11D0	w	21.06	9.55	0	0	0		0	0	0		
	Wall	12C-0sw	-	4.91	0.87	126	619	110		126	619	110		
	Door	11D0	n	21.06	9.55	0	0	0		0	0	0		
	Ceil	16A-28ad	-	1.75	2.20	620	1139	1434		1225	2248	2831		
	Ceil	16B-30ad	-	1.73	1.54	24	41	36		0	0	0		
	Flor	19C-19cscp	-	0.92	0.22	0	0	0		0	0	0		
	Flor	19C-19cscp	-	0.92	0.22	0	0	0		0	0	0		
	Flor	19C-19cscp	-	0.92	0.22	0	0	0		0	0	0		
	Flor	21A-32t	-	1.08	0.00	1367	1476	0		1507	1627	0		
	Flor	21A-32t	-	1.08	0.00	0	0	0		0	0	0		
	Flor	21A-32t	-	0.95	0.00	0	0	0		0	0	0		
12	Infiltration	Heating Load (Btuh)		Effect ACH		0.58	WAR	7489		WAR	6768			
		Sensible Load (Btuh)				0.29	1.00			902		815		
		Latent Load (Btuh)										1308		
13	Internal	a Occupants at 230 and 200 Btuh				5		1150	1000	0		0	0	
		b Scenario number						2100				0		
		c Default Adjustments										0	0	
		d Custom Appliances						0	0			0	0	
		e Plants							0			0	0	
14	Subtotals	Sum lines 6 through 12						16004	7907	2448		15777	5579	1308
15	Duct Loads	EHLF & ESGF		0	0			0	0		0	0		
		ELG							0				0	
16	Ventilation Loads	Vent Cfm	24	E Cfm	24			0	0	0		0	0	0
17	Winter Humidification Load	Gal/Day		0				0			0			
18	Piping Load							2580			2580			
19	Blower Heat							0			0			
20	AED Excursion & Latent Moisture Migration Load							0			0			
21	Total Load	Sum lines 13 through 19						18583	7907	2448		18357	5579	1308

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 (Unconditioned) Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room			(Unconditioned)						Garage						
2 Running Feet of Exposed Wall			44.5 ft						44.5 ft						
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft			663.3 ft²			9.0 ft			663.3 ft²			
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)						267.5 ft²			1.0 x 267.5 ft			267.5 ft²			
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °			242.5 ft²			0 °			242.5 ft²			
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh					
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg			
6	Wall	12F-0sw	n	0.00	0.00	0	0	0	0	0	0	0	0	0	0
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0	0	0	0
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0	0	0	0
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0	0	0	0
11	Wall	12F-0sw	e	0.00	0.00	59	0	0	0	59	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0	0
	Door	11D0	e	0.00	0.00	0	0	0	0	0	0	0	0	0	0
	Wall	12F-0sw	s	0.00	0.00	162	0	0	0	162	0	0	0	0	0
	Glaz	Window	s	0.00	0.00	0	0	0	0	0	0	0	0	0	0
	Glaz	Window	s	0.00	0.00	0	0	0	0	0	0	0	0	0	0
	Glaz	Window	s	0.00	0.00	0	0	0	0	0	0	0	0	0	0
	Door	11D0	s	0.00	0.00	56	0	0	0	56	0	0	0	0	0
	Wall	12F-0sw	w	0.00	0.00	180	0	0	0	180	0	0	0	0	0
	Glaz	Window	w	0.00	0.00	50	0	0	0	50	0	0	0	0	0
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0	0	0	0
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0	0	0	0
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0	0	0	0
	Door	11D0	w	0.00	0.00	0	0	0	0	0	0	0	0	0	0
	Wall	12C-0sw	-	0.00	0.00	0	0	0	0	0	0	0	0	0	0
	Door	11D0	n	0.00	0.00	0	0	0	0	0	0	0	0	0	0
	Ceil	16A-28ad	-	0.00	0.00	239	0	0	0	239	0	0	0	0	0
	Ceil	16B-30ad	-	0.00	0.00	0	0	0	0	0	0	0	0	0	0
	Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0	0	0	0	0
	Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0	0	0	0	0
	Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0	0	0	0	0
	Flor	21A-32t	-	0.00	0.00	0	0	0	0	0	0	0	0	0	0
	Flor	21A-32t	-	0.00	0.00	0	0	0	0	0	0	0	0	0	0
	Flor	21A-32t	-	0.00	0.00	263	0	0	0	263	0	0	0	0	0
12	Infiltration	Heating Load (Btuh)		Effect ACH	0	WAR 1.00	0	0	0	WAR 0	0	0	0	0	0
		Sensible Load (Btuh)			0		0				0				
		Latent Load (Btuh)			0		0				0				
13	Internal	a Occupants at 230 and 200 Btuh				0	0	0	0	0	0	0	0	0	0
		b Scenario number					0				0				0
		c Default Adjustments													
		d Custom Appliances					0		0		0		0		0
		e Plants							0				0		0
14	Subtotals	Sum lines 6 through 12					0	0	0		0	0		0	0
15	Duct Loads	EHLF & ESGF		0	0		0	0			0			0	0
		ELG									0				0
16	Ventilation Loads	Vent Cfm	0	E Cfm	0		0	0	0		0	0	0		0
17	Winter Humidification Load	Gal/Day			0		0				0				0
18	Piping Load						2580								
19	Blower Heat							0							
20	AED Excursion & Latent Moisture Migration Load										0				
21	Total Load	Sum lines 13 through 19					2580	0	0		0	0		0	0

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 AHU 01 Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room			AHU 01						Living Room					
2 Running Feet of Exposed Wall			125.0 ft						32.5 ft					
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft		3427.6 ft²		9.0 ft		513.0 ft²					
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)					1551.3 ft²		1.0 x 248.0 ft		248.0 ft²					
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		1551.3 ft²		0 °		248.0 ft²					
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh				
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg		
6	Wall	12F-0sw	n	3.51	0.86	158	488	120		158	488	120		
	Glaz	Window	n	17.28	8.46	18	317	155		18	317	155		
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0		
11	Wall	12F-0sw	e	3.51	0.86	68	195	48		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	17.28	40.23	12	207	483		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Door	11D0	e	0.00	0.00	0	0	0		0	0	0		
	Wall	12F-0sw	s	3.51	0.86	131	374	92		0	0	0		
	Glaz	Window	s	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	s	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	s	0.00	0.00	0	0	0		0	0	0		
	Door	11D0	s	21.06	9.55	24	505	229		0	0	0		
	Wall	12F-0sw	w	3.51	0.86	486	963	237		135	283	70		
	Glaz	Window	w	17.28	40.23	188	3243	7550		54	939	2187		
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0		
	Door	11D0	w	21.06	9.55	24	505	229		0	0	0		
	Wall	12C-0sw	-	4.91	0.87	284	1292	230		0	0	0		
	Door	11D0	n	21.06	9.55	21	435	197		0	0	0		
	Ceil	16A-28ad	-	1.84	2.31	80	147	186		1	1	1		
	Ceil	16B-30ad	-	1.73	1.54	20	35	31		0	0	0		
	Flor	19C-19cscp	-	0.00	0.00	0	0	0		0	0	0		
	Flor	19C-19cscp	-	0.92	0.22	14	13	3		0	0	0		
	Flor	19C-19cscp	-	0.00	0.00	0	0	0		0	0	0		
	Flor	21A-32t	-	0.00	0.00	0	0	0		0	0	0		
	Flor	21A-32t	-	0.00	0.00	0	0	0		0	0	0		
	Flor	21A-32t	-	1.08	0.00	1070	1155	0		248	268	0		
12	Infiltration	Heating Load (Btuh)		Effect ACH	0.38	WAR 1.00	5187		WAR 0.35	1803				
		Sensible Load (Btuh)			0.19			625			217			
		Latent Load (Btuh)								1003				
13	Internal	a Occupants at 230 and 200 Btuh				9		2070	1800	9		2070	1800	
		b Scenario number						900				900		
		c Default Adjustments												
		d Custom Appliances						0	0			0	0	
		e Plants							0				0	
14	Subtotals	Sum lines 6 through 12					15062	16290	2803		4100	6450		
15	Duct Loads	EHLF & ESGF		0	0		0	0		0	0			
		ELG							0			0		
16	Ventilation Loads	Vent Cfm	0	E Cfm	0		0	0	0					
17	Winter Humidification Load	Gal/Day		0			0							
18	Piping Load						2580							
19	Blower Heat							0						
20	AED Excursion & Latent Moisture Migration Load							2904			730			
21	Total Load	Sum lines 13 through 19					17641	16290	2803		4100	6450		

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 AHU 01 Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room			Dining Room						Foyer/Vestibule					
2 Running Feet of Exposed Wall			19.5 ft						10.5 ft					
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft		630.0 ft²		9.0 ft		464.7 ft²					
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			1.0 x 420.0 ft		420.0 ft²		1.0 x 250.3 ft		250.3 ft²					
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		420.0 ft²		0 °		250.3 ft²					
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh				
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg		
6	Wall	12F-0sw	n	3.51	0.86	0	0	0	0	0	0	0		
	Glaz	Window	n	17.28	8.46	0	0	0	0	0	0	0		
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0		
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0		
11	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0		
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0		
	Wall	12F-0sw	e	3.51	0.86	0	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0		
	Glaz	Window	e	17.28	40.23	0	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0		
	Door	11D0	e	0.00	0.00	0	0	0	0	0	0	0		
	Wall	12F-0sw	s	3.51	0.86	18	63	16	0	0	0	0		
	Glaz	Window	s	0.00	0.00	0	0	0	0	0	0	0		
	Glaz	Window	s	0.00	0.00	0	0	0	0	0	0	0		
	Glaz	Window	s	0.00	0.00	0	0	0	0	0	0	0		
	Door	11D0	s	21.06	9.55	0	0	0	0	0	0	0		
	Wall	12F-0sw	w	3.51	0.86	158	298	73	95	247	61	0		
	Glaz	Window	w	17.28	40.23	73	1257	2925	0	0	0	0		
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0		
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0		
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0		
	Door	11D0	w	21.06	9.55	0	0	0	24	505	229	0		
	Wall	12C-0sw	-	4.91	0.87	0	0	0	0	0	0	0		
	Door	11D0	n	21.06	9.55	0	0	0	0	0	0	0		
	Ceil	16A-28ad	-	1.84	2.31	8	15	18	16	28	36	0		
	Ceil	16B-30ad	-	1.73	1.54	0	0	0	0	0	0	0		
	Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0	0		
	Flor	19C-19cscp	-	0.92	0.22	0	0	0	0	0	0	0		
	Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0	0		
	Flor	21A-32t	-	0.00	0.00	0	0	0	0	0	0	0		
	Flor	21A-32t	-	0.00	0.00	0	0	0	0	0	0	0		
	Flor	21A-32t	-	1.08	0.00	335	362	0	227	245	0	0		
12	Infiltration	Heating Load (Btuh)		Effect ACH	0.38	WAR 0.21	1082		WAR 0.11	583				
		Sensible Load (Btuh)			0.19			130			70			
		Latent Load (Btuh)												
13	Internal	a Occupants at 230 and 200 Btuh				0	0	0	0	0	0	0		
		b Scenario number					0			0		0		
		c Default Adjustments										0		
		d Custom Appliances					0			0		0		
		e Plants								0		0		
14	Subtotals	Sum lines 6 through 12					3075	4307		1609	387			
15	Duct Loads	EHLF & ESGF		0	0		0	0		0	0			
		ELG							0			0		
16	Ventilation Loads	Vent Cfm	0	E Cfm	0									
17	Winter Humidification Load	Gal/Day		0										
18	Piping Load													
19	Blower Heat													
20	AED Excursion & Latent Moisture Migration Load							1143			-10			
21	Total Load	Sum lines 13 through 19					3075	4307		1609	387			

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 AHU 01 Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room			Hallway 1 25.0 ft			Side Entry 25.0 ft						
2 Running Feet of Exposed Wall			9.0 ft			1043.1 ft²						
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			1.0 x 485.3 ft			485.3 ft²						
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			0 °			485.3 ft²						
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)						9.0 ft 459.3 ft²						
						1.0 x 110.3 ft 110.3 ft²						
						0 ° 110.3 ft²						
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6	Wall	12F-0sw	n	3.51	0.86	0	0	0	0	0	0	0
	Glaz	Window	n	17.28	8.46	0	0	0	0	0	0	0
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0
11	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0
	Wall	12F-0sw	e	3.51	0.86	0	0	0	68	195	48	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	e	17.28	40.23	0	0	0	12	207	483	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0
	Door	11D0	e	0.00	0.00	0	0	0	0	0	0	0
	Wall	12F-0sw	s	3.51	0.86	54	190	47	59	121	30	0
	Glaz	Window	s	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	s	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	s	0.00	0.00	0	0	0	0	0	0	0
	Door	11D0	s	21.06	9.55	0	0	0	24	505	229	0
	Wall	12F-0sw	w	3.51	0.86	99	135	33	0	0	0	0
	Glaz	Window	w	17.28	40.23	61	1047	2438	0	0	0	0
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0
	Door	11D0	w	21.06	9.55	0	0	0	0	0	0	0
	Wall	12C-0sw	-	4.91	0.87	72	354	63	99	385	68	0
	Door	11D0	n	21.06	9.55	0	0	0	21	435	197	0
	Ceil	16A-28ad	-	1.84	2.31	0	0	0	56	103	130	0
	Ceil	16B-30ad	-	1.73	1.54	0	0	0	0	0	0	0
	Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0	0
	Flor	19C-19cscp	-	0.92	0.22	14	13	3	0	0	0	0
	Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0	0
	Flor	21A-32t	-	0.00	0.00	0	0	0	0	0	0	0
	Flor	21A-32t	-	0.00	0.00	0	0	0	0	0	0	0
	Flor	21A-32t	-	1.08	0.00	206	222	0	16	18	0	0
12	Infiltration	Heating Load (Btuh)		Effect ACH	0.38	WAR 0.18	943	WAR 0.15	777			
		Sensible Load (Btuh)			0.19		114		94			
		Latent Load (Btuh)										
13	Internal	a Occupants at 230 and 200 Btuh				0	0	0	0	0	0	0
		b Scenario number					0			0		0
		c Default Adjustments										
		d Custom Appliances					0			0		0
		e Plants								0		0
14	Subtotals	Sum lines 6 through 12					2903	3649		2746	1372	
15	Duct Loads	EHLF & ESGF		0	0		0	0		0	0	
		ELG							0			0
16	Ventilation Loads	Vent Cfm	0	E Cfm	0							
17	Winter Humidification Load	Gal/Day		0								
18	Piping Load											
19	Blower Heat											
20	AED Excursion & Latent Moisture Migration Load							951			92	
21	Total Load	Sum lines 13 through 19					2903	3649		2746	1372	

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 AHU 01 Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room						P.R						
2 Running Feet of Exposed Wall						12.5 ft						
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)						9.0 ft 317.5 ft²						
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)						5.0 x 7.5 ft 37.5 ft²						
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)						0 ° 37.5 ft²						
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6	Wall	12F-0sw	n	3.51	0.86	0	0	0				
	Glaz	Window	n	17.28	8.46	0	0	0				
	Glaz	Window	n	0.00	0.00	0	0	0				
	Glaz	Window	n	0.00	0.00	0	0	0				
11	Glaz	Window	n	0.00	0.00	0	0	0				
	Glaz	Window	n	0.00	0.00	0	0	0				
	Wall	12F-0sw	e	3.51	0.86	0	0	0				
	Glaz	Window	e	0.00	0.00	0	0	0				
	Glaz	Window	e	0.00	0.00	0	0	0				
	Glaz	Window	e	0.00	0.00	0	0	0				
	Glaz	Window	e	17.28	40.23	0	0	0				
	Glaz	Window	e	0.00	0.00	0	0	0				
	Glaz	Window	e	0.00	0.00	0	0	0				
	Glaz	Window	e	0.00	0.00	0	0	0				
	Glaz	Window	e	0.00	0.00	0	0	0				
	Glaz	Window	e	0.00	0.00	0	0	0				
	Glaz	Window	e	0.00	0.00	0	0	0				
	Glaz	Window	e	0.00	0.00	0	0	0				
	Door	11D0	e	0.00	0.00	0	0	0				
	Wall	12F-0sw	s	3.51	0.86	0	0	0				
	Glaz	Window	s	0.00	0.00	0	0	0				
	Glaz	Window	s	0.00	0.00	0	0	0				
	Glaz	Window	s	0.00	0.00	0	0	0				
	Door	11D0	s	21.06	9.55	0	0	0				
	Wall	12F-0sw	w	3.51	0.86	0	0	0				
	Glaz	Window	w	17.28	40.23	0	0	0				
	Glaz	Window	w	0.00	0.00	0	0	0				
	Glaz	Window	w	0.00	0.00	0	0	0				
	Glaz	Window	w	0.00	0.00	0	0	0				
	Door	11D0	w	21.06	9.55	0	0	0				
	Wall	12C-0sw	-	4.91	0.87	113	553	98				
	Door	11D0	n	21.06	9.55	0	0	0				
	Ceil	16A-28ad	-	1.84	2.31	0	0	0				
	Ceil	16B-30ad	-	1.73	1.54	20	35	31				
	Flor	19C-19cscp	-	0.00	0.00	0	0	0				
	Flor	19C-19cscp	-	0.92	0.22	0	0	0				
	Flor	19C-19cscp	-	0.00	0.00	0	0	0				
	Flor	21A-32t	-	0.00	0.00	0	0	0				
	Flor	21A-32t	-	0.00	0.00	0	0	0				
	Flor	21A-32t	-	1.08	0.00	38	40	0				
12	Infiltration	Heating Load (Btuh)		Effect ACH	0.38	WAR 0	0					
		Sensible Load (Btuh)			0.19							
		Latent Load (Btuh)										
13	Internal	a Occupants at 230 and 200 Btuh				0	0	0				
		b Scenario number					0					
		c Default Adjustments										
		d Custom Appliances					0	0				
		e Plants						0				
14	Subtotals	Sum lines 6 through 12					628	126				
15	Duct Loads	EHLF & ESGF		0	0		0	0				
		ELG						0				
16	Ventilation Loads	Vent Cfm	0	E Cfm	0							
17	Winter Humidification Load	Gal/Day		0								
18	Piping Load											
19	Blower Heat											
20	AED Excursion & Latent Moisture Migration Load											
21	Total Load	Sum lines 13 through 19					628	126				

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 AHU 02 Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room			AHU 02						Kitchen/Dinette					
2 Running Feet of Exposed Wall			101.0 ft						33.0 ft					
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft		2138.4 ft²		9.0 ft		745.5 ft²					
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)					1120.0 ft²		1.0 x 492.0 ft		492.0 ft²					
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		1120.0 ft²		0 °		492.0 ft²					
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh				
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg		
6	Wall	12F-0sw	n	3.51	0.86	230	683	168		59	147	36		
	Glaz	Window	n	17.28	8.46	18	317	155		0	0	0		
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0		
11	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	n	17.28	8.46	17	287	141		17	287	141		
	Wall	12F-0sw	e	3.51	0.86	423	957	236		149	292	72		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	17.28	40.23	10	173	402		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	17.28	40.23	58	1008	2347		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	17.28	40.23	17	287	668		0	0	0		
	Glaz	Window	e	17.28	40.23	65	1131	2632		65	1131	2632		
	Door	11D0	e	0.00	0.00	0	0	0		0	0	0		
	Wall	12F-0sw	s	3.51	0.86	257	536	132		90	157	39		
	Glaz	Window	s	17.28	16.71	58	1008	975		0	0	0		
	Glaz	Window	s	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	s	0.00	0.00	0	0	0		0	0	0		
	Door	11D0	s	21.06	9.55	45	955	433		45	955	433		
	Wall	12F-0sw	w	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0		
	Door	11D0	w	0.00	0.00	0	0	0		0	0	0		
	Wall	12C-0sw	-	0.00	0.00	0	0	0		0	0	0		
	Door	11D0	n	0.00	0.00	0	0	0		0	0	0		
	Ceil	16A-28ad	-	1.84	2.31	511	939	1182		206	379	477		
	Ceil	16B-30ad	-	0.00	0.00	0	0	0		0	0	0		
	Flor	19C-19cscp	-	0.00	0.00	0	0	0		0	0	0		
	Flor	19C-19cscp	-	0.92	0.22	10	9	2		0	0	0		
	Flor	19C-19cscp	-	0.00	0.00	0	0	0		0	0	0		
	Flor	21A-32t	-	0.00	0.00	0	0	0		0	0	0		
	Flor	21A-32t	-	0.00	0.00	0	0	0		0	0	0		
	Flor	21A-32t	-	1.08	0.00	572	618	0		124	134	0		
12	Infiltration	Heating Load (Btuh)		Effect ACH	0.56	WAR 1.00	5603		WAR 0.33	1831				
		Sensible Load (Btuh)			0.28			675			221			
		Latent Load (Btuh)								1083				
13	Internal	a Occupants at 230 and 200 Btuh				0		0	0		0	0		
		b Scenario number						1200			1200			
		c Default Adjustments												
		d Custom Appliances						0			0	0		
		e Plants									0	0		
14	Subtotals	Sum lines 6 through 12					14510	11654	1083		5311	5568		
15	Duct Loads	EHLF & ESGF		0	0		0	0		0	0			
		ELG							0			0		
16	Ventilation Loads	Vent Cfm	0	E Cfm	0		0	0	0					
17	Winter Humidification Load	Gal/Day		0			0							
18	Piping Load						2580							
19	Blower Heat							0						
20	AED Excursion & Latent Moisture Migration Load							305			318			
21	Total Load	Sum lines 13 through 19					17090	11654	1083		5311	5568		

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 AHU 02 Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room			Family Room			Passover Kitchen						
2 Running Feet of Exposed Wall			35.5 ft			20.0 ft						
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft		543.9 ft ²	9.0 ft		336.0 ft ²				
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			17.0 x 18.5 ft		314.5 ft ²	13.5 x 6.5 ft		87.8 ft ²				
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		314.5 ft ²	0 °		87.8 ft ²				
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6	Wall	12F-0sw	n	3.51	0.86	0	0	0	59	205	51	
	Glaz	Window	n	17.28	8.46	0	0	0	0	0	0	
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	
11	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	
	Glaz	Window	n	17.28	8.46	0	0	0	0	0	0	
	Wall	12F-0sw	e	3.51	0.86	153	332	82	122	333	82	
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	
	Glaz	Window	e	17.28	40.23	0	0	0	10	173	402	
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	
	Glaz	Window	e	17.28	40.23	58	1008	2347	0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	
	Glaz	Window	e	17.28	40.23	0	0	0	17	287	668	
	Glaz	Window	e	17.28	40.23	0	0	0	0	0	0	
	Door	11D0	e	0.00	0.00	0	0	0	0	0	0	
	Wall	12F-0sw	s	3.51	0.86	167	380	94	0	0	0	
	Glaz	Window	s	17.28	16.71	58	1008	975	0	0	0	
	Glaz	Window	s	0.00	0.00	0	0	0	0	0	0	
	Glaz	Window	s	0.00	0.00	0	0	0	0	0	0	
	Door	11D0	s	21.06	9.55	0	0	0	0	0	0	
	Wall	12F-0sw	w	0.00	0.00	0	0	0	0	0	0	
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	
	Door	11D0	w	0.00	0.00	0	0	0	0	0	0	
	Wall	12C-0sw	-	0.00	0.00	0	0	0	0	0	0	
	Door	11D0	n	0.00	0.00	0	0	0	0	0	0	
	Ceil	16A-28ad	-	1.84	2.31	224	411	518	81	149	187	
	Ceil	16B-30ad	-	0.00	0.00	0	0	0	0	0	0	
	Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0	
	Flor	19C-19cscp	-	0.92	0.22	10	9	2	0	0	0	
	Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0	
	Flor	21A-32t	-	0.00	0.00	0	0	0	0	0	0	
	Flor	21A-32t	-	0.00	0.00	0	0	0	0	0	0	
	Flor	21A-32t	-	1.08	0.00	239	258	0	77	83	0	
12	Infiltration	Heating Load (Btuh)		Effect ACH	0.56	WAR 0.35	1969		WAR 0.20	1110		
		Sensible Load (Btuh)			0.28					134		
		Latent Load (Btuh)										
13	Internal	a Occupants at 230 and 200 Btuh				0	0	0	0	0	0	
		b Scenario number					0			0		
		c Default Adjustments										
		d Custom Appliances					0			0		0
		e Plants								0		0
14	Subtotals	Sum lines 6 through 12					5376	4058		2339	1722	
15	Duct Loads	EHLF & ESGF		0	0		0	0		0	0	
		ELG							0			0
16	Ventilation Loads	Vent Cfm	0	E Cfm	0							
17	Winter Humidification Load	Gal/Day		0								
18	Piping Load											
19	Blower Heat											
20	AED Excursion & Latent Moisture Migration Load							-196			198	
21	Total Load	Sum lines 13 through 19					5376	4058		2339	1722	

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 AHU 02 Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room						Study						
2 Running Feet of Exposed Wall						12.5 ft						
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)						9.0 ft			513.0 ft²			
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)						1.0 x 225.8 ft			225.8 ft²			
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)						0°			225.8 ft²			
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6	Wall	12F-0sw	n	3.51	0.86	113	330	81				
	Glaz	Window	n	17.28	8.46	18	317	155				
	Glaz	Window	n	0.00	0.00	0	0	0				
	Glaz	Window	n	0.00	0.00	0	0	0				
11	Glaz	Window	n	0.00	0.00	0	0	0				
	Glaz	Window	n	17.28	8.46	0	0	0				
	Wall	12F-0sw	e	3.51	0.86	0	0	0				
	Glaz	Window	e	0.00	0.00	0	0	0				
	Glaz	Window	e	0.00	0.00	0	0	0				
	Glaz	Window	e	17.28	40.23	0	0	0				
	Glaz	Window	e	0.00	0.00	0	0	0				
	Glaz	Window	e	0.00	0.00	0	0	0				
	Glaz	Window	e	0.00	0.00	0	0	0				
	Glaz	Window	e	17.28	40.23	0	0	0				
	Glaz	Window	e	17.28	40.23	0	0	0				
	Glaz	Window	e	0.00	0.00	0	0	0				
	Glaz	Window	e	0.00	0.00	0	0	0				
	Glaz	Window	e	0.00	0.00	0	0	0				
	Glaz	Window	e	17.28	40.23	0	0	0				
	Glaz	Window	e	17.28	40.23	0	0	0				
	Door	11D0	e	0.00	0.00	0	0	0				
	Wall	12F-0sw	s	3.51	0.86	0	0	0				
	Glaz	Window	s	17.28	16.71	0	0	0				
	Glaz	Window	s	0.00	0.00	0	0	0				
	Glaz	Window	s	0.00	0.00	0	0	0				
	Door	11D0	s	21.06	9.55	0	0	0				
	Wall	12F-0sw	w	0.00	0.00	0	0	0				
	Glaz	Window	w	0.00	0.00	0	0	0				
	Glaz	Window	w	0.00	0.00	0	0	0				
	Glaz	Window	w	0.00	0.00	0	0	0				
	Glaz	Window	w	0.00	0.00	0	0	0				
	Door	11D0	w	0.00	0.00	0	0	0				
	Wall	12C-0sw	-	0.00	0.00	0	0	0				
	Door	11D0	n	0.00	0.00	0	0	0				
	Ceil	16A-28ad	-	1.84	2.31	0	0	0				
	Ceil	16B-30ad	-	0.00	0.00	0	0	0				
	Flor	19C-19cscp	-	0.00	0.00	0	0	0				
	Flor	19C-19cscp	-	0.92	0.22	0	0	0				
	Flor	19C-19cscp	-	0.00	0.00	0	0	0				
	Flor	21A-32t	-	0.00	0.00	0	0	0				
	Flor	21A-32t	-	0.00	0.00	0	0	0				
	Flor	21A-32t	-	1.08	0.00	132	143	0				
12	Infiltration	Heating Load (Btuh)		Effect ACH	0.56	WAR 0.12	693					
		Sensible Load (Btuh)			0.28			84				
		Latent Load (Btuh)										
13	Internal	a Occupants at 230 and 200 Btuh				0	0	0				
		b Scenario number					0					
		c Default Adjustments										
		d Custom Appliances					0	0				
		e Plants						0				
14	Subtotals	Sum lines 6 through 12					1484	306				
15	Duct Loads	EHLF & ESGF		0	0		0	0				
		ELG						0				
16	Ventilation Loads	Vent Cfm	0	E Cfm	0							
17	Winter Humidification Load	Gal/Day		0								
18	Piping Load											
19	Blower Heat											
20	AED Excursion & Latent Moisture Migration Load											
21	Total Load	Sum lines 13 through 19					1484	306				

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 AHU 03 Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room			AHU 03						Master Bedroom					
2 Running Feet of Exposed Wall			85.5 ft						34.0 ft					
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft		2156.0 ft²		9.0 ft		728.7 ft²					
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			820.0 ft²		820.0 ft²		1.0 x 373.3 ft		373.3 ft²					
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		820.0 ft²		0 °		373.3 ft²					
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh				
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg		
6	Wall	12F-0sw	n	3.51	0.86	135	445	110		0	0	0		
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	n	17.28	8.46	8	140	68		0	0	0		
11	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0		
	Wall	12F-0sw	e	3.51	0.86	441	1257	310		207	560	138		
	Glaz	Window	e	17.28	40.23	8	141	328		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	17.28	40.23	23	403	939		23	403	939		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	17.28	40.23	27	472	1098		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Door	11D0	e	21.06	9.55	24	505	229		24	505	229		
	Wall	12F-0sw	s	3.51	0.86	194	679	167		99	347	86		
	Glaz	Window	s	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	s	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	s	0.00	0.00	0	0	0		0	0	0		
	Door	11D0	s	0.00	0.00	0	0	0		0	0	0		
	Wall	12F-0sw	w	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0		
	Door	11D0	w	0.00	0.00	0	0	0		0	0	0		
	Wall	12C-0sw	-	0.00	0.00	0	0	0		0	0	0		
	Door	11D0	n	0.00	0.00	0	0	0		0	0	0		
	Ceil	16A-28ad	-	1.84	2.31	820	1506	1896		373	685	863		
	Ceil	16B-30ad	-	0.00	0.00	0	0	0		0	0	0		
	Flor	19C-19cscp	-	0.00	0.00	0	0	0		0	0	0		
	Flor	19C-19cscp	-	0.00	0.00	0	0	0		0	0	0		
	Flor	19C-19cscp	-	0.00	0.00	0	0	0		0	0	0		
	Flor	21A-32t	-	0.00	0.00	0	0	0		0	0	0		
	Flor	21A-32t	-	0.00	0.00	0	0	0		0	0	0		
	Flor	21A-32t	-	0.00	0.00	0	0	0		0	0	0		
12	Infiltration	Heating Load (Btuh)		Effect ACH		0.65	WAR	4743		WAR	0.40	1886		
		Sensible Load (Btuh)				0.33	1.00					227		
		Latent Load (Btuh)												
13	Internal	a Occupants at 230 and 200 Btuh				0		0	0	0		0		
		b Scenario number						500				0		
		c Default Adjustments										0		
		d Custom Appliances						0				0		
		e Plants										0		
14	Subtotals	Sum lines 6 through 12						10292	6764	917		4388	2721	
15	Duct Loads	EHLF & ESGF		0	0			0	0		0	0		
		ELG								0		0		
16	Ventilation Loads	Vent Cfm	0	E Cfm	0			0	0		0	0		
17	Winter Humidification Load	Gal/Day		0				0						
18	Piping Load							2580						
19	Blower Heat								0					
20	AED Excursion & Latent Moisture Migration Load								547			239		
21	Total Load	Sum lines 13 through 19						12871	6764	917		4388	2721	

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 AHU 03 Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room			Master Bath						Master W.I.C					
2 Running Feet of Exposed Wall			25.0 ft						4.0 ft					
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft			430.0 ft²			9.0 ft			376.0 ft²		
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			12.0 x 13.0 ft			156.0 ft²			1.0 x 107.8 ft			107.8 ft²		
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °			156.0 ft²			0 °			107.8 ft²		
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh				
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg		
6	Wall	12F-0sw	n	3.51	0.86	117	382	94		18	63	16		
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	n	17.28	8.46	8	140	68		0	0	0		
11	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0		
	Wall	12F-0sw	e	3.51	0.86	108	350	86		18	63	16		
	Glaz	Window	e	17.28	40.23	8	141	328		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Door	11D0	e	21.06	9.55	0	0	0		0	0	0		
	Wall	12F-0sw	s	3.51	0.86	0	0	0		0	0	0		
	Glaz	Window	s	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	s	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	s	0.00	0.00	0	0	0		0	0	0		
	Door	11D0	s	0.00	0.00	0	0	0		0	0	0		
	Wall	12F-0sw	w	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0		
	Door	11D0	w	0.00	0.00	0	0	0		0	0	0		
	Wall	12C-0sw	-	0.00	0.00	0	0	0		0	0	0		
	Door	11D0	n	0.00	0.00	0	0	0		0	0	0		
	Ceil	16A-28ad	-	1.84	2.31	156	286	361		108	198	249		
	Ceil	16B-30ad	-	0.00	0.00	0	0	0		0	0	0		
	Flor	19C-19cscp	-	0.00	0.00	0	0	0		0	0	0		
	Flor	19C-19cscp	-	0.00	0.00	0	0	0		0	0	0		
	Flor	19C-19cscp	-	0.00	0.00	0	0	0		0	0	0		
	Flor	21A-32t	-	0.00	0.00	0	0	0		0	0	0		
	Flor	21A-32t	-	0.00	0.00	0	0	0		0	0	0		
	Flor	21A-32t	-	0.00	0.00	0	0	0		0	0	0		
12	Infiltration	Heating Load (Btuh)		Effect ACH		0.65	WAR	1387		WAR	222			
		Sensible Load (Btuh)				0.33	0.29			0.05	27			
		Latent Load (Btuh)												
13	Internal	a Occupants at 230 and 200 Btuh				0		0	0	0	0	0		
		b Scenario number						0			0			
		c Default Adjustments												
		d Custom Appliances						0			0	0		
		e Plants									0	0		
14	Subtotals	Sum lines 6 through 12						2687	1133		546	307		
15	Duct Loads	EHLF & ESGF		0	0			0	0		0	0		
		ELG							0			0		
16	Ventilation Loads	Vent Cfm	0	E Cfm	0									
17	Winter Humidification Load	Gal/Day		0										
18	Piping Load													
19	Blower Heat													
20	AED Excursion & Latent Moisture Migration Load							28			0			
21	Total Load	Sum lines 13 through 19						2687	1133		546	307		

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 AHU 03 Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room			Baby Room						Laundry Room						
2 Running Feet of Exposed Wall			0 ft						22.5 ft						
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft		237.7 ft ²		9.0 ft		383.7 ft ²						
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			9.5 x 6.0 ft		57.0 ft ²		12.0 x 10.5 ft		126.0 ft ²						
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		57.0 ft ²		0 °		126.0 ft ²						
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh					
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg			
6	Wall	12F-0sw	n	3.51	0.86	0	0	0	0	0	0	0			
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	n	17.28	8.46	0	0	0	0	0	0	0			
11	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0			
	Wall	12F-0sw	e	3.51	0.86	0	0	0	108	283	70	0			
	Glaz	Window	e	17.28	40.23	0	0	0	0	0	0	0			
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	e	17.28	40.23	0	0	0	0	0	0	0			
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	e	17.28	40.23	0	0	0	0	472	1098	0			
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0			
	Door	11D0	e	21.06	9.55	0	0	0	0	0	0	0			
	Wall	12F-0sw	s	3.51	0.86	0	0	0	95	332	82	0			
	Glaz	Window	s	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	s	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	s	0.00	0.00	0	0	0	0	0	0	0			
	Door	11D0	s	0.00	0.00	0	0	0	0	0	0	0			
	Wall	12F-0sw	w	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0			
	Door	11D0	w	0.00	0.00	0	0	0	0	0	0	0			
	Wall	12C-0sw	-	0.00	0.00	0	0	0	0	0	0	0			
	Door	11D0	n	0.00	0.00	0	0	0	0	0	0	0			
	Ceil	16A-28ad	-	1.84	2.31	57	105	132	126	231	291	0			
	Ceil	16B-30ad	-	0.00	0.00	0	0	0	0	0	0	0			
	Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0	0			
	Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0	0			
	Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0	0			
	Flor	21A-32t	-	0.00	0.00	0	0	0	0	0	0	0			
	Flor	21A-32t	-	0.00	0.00	0	0	0	0	0	0	0			
	Flor	21A-32t	-	0.00	0.00	0	0	0	0	0	0	0			
12	Infiltration	Heating Load (Btuh)		Effect ACH		0.65		WAR 0		0		1248			
		Sensible Load (Btuh)		0.33		WAR 0		0		WAR 0.26		150			
		Latent Load (Btuh)													
13	Internal	a Occupants at 230 and 200 Btuh				0		0		0		0			
		b Scenario number						0				500			
		c Default Adjustments										0			
		d Custom Appliances						0				0			
		e Plants						0				0			
14	Subtotals	Sum lines 6 through 12						105		132		2566		2471	
15	Duct Loads	EHLF & ESGF		0		0		0		0		0		0	
		ELG								0				0	
16	Ventilation Loads	Vent Cfm		0		E Cfm		0							
17	Winter Humidification Load	Gal/Day		0											
18	Piping Load														
19	Blower Heat														
20	AED Excursion & Latent Moisture Migration Load									0		280			
21	Total Load	Sum lines 13 through 19						105		132		2566		2471	

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 AHU 04 Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room			AHU 04			Bedroom 4						
2 Running Feet of Exposed Wall			130.5 ft			25.0 ft						
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft	3987.5 ft²		9.0 ft	428.7 ft²					
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			11.0 x 14.0 ft			154.0 ft²						
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °	1499.8 ft²		0 °	154.0 ft²					
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6	Wall	12F-0sw	n	3.51	0.86	297	1021	251		126	442	109
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	n	17.28	8.46	6	106	52		0	0	0
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0
11	Wall	12F-0sw	e	3.51	0.86	99	252	62		99	252	62
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	17.28	40.23	27	472	1098		27	472	1098
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Door	11D0	e	0.00	0.00	0	0	0		0	0	0
	Wall	12F-0sw	s	3.51	0.86	171	533	131		0	0	0
	Glaz	Window	s	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	s	17.28	13.59	19	332	261		0	0	0
	Glaz	Window	s	0.00	0.00	0	0	0		0	0	0
	Door	11D0	s	0.00	0.00	0	0	0		0	0	0
	Wall	12F-0sw	w	3.51	0.86	486	1221	301		0	0	0
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	w	17.28	40.23	20	349	813		0	0	0
	Glaz	Window	w	17.28	40.23	27	472	1098		0	0	0
	Glaz	Window	w	17.28	40.23	91	1568	3650		0	0	0
	Door	11D0	w	0.00	0.00	0	0	0		0	0	0
	Wall	12C-0sw	-	4.91	0.87	122	492	88		0	0	0
	Door	11D0	n	21.06	9.55	21	449	204		0	0	0
	Ceill	16A-28ad	-	1.84	2.31	1500	2754	3467		154	283	356
	Ceill	16B-30ad	-	0.00	0.00	0	0	0		0	0	0
	Flor	19C-19cscp	-	0.00	0.00	0	0	0		0	0	0
	Flor	19C-19cscp	-	0.00	0.00	0	0	0		0	0	0
	Flor	19C-19cscp	-	0.92	0.22	4	3	1		0	0	0
	Flor	21A-32t	-	0.00	0.00	0	0	0		0	0	0
	Flor	21A-32t	-	0.00	0.00	0	0	0		0	0	0
	Flor	21A-32t	-	0.00	0.00	0	0	0		0	0	0
12	Infiltration	Heating Load (Btuh)		Effect ACH		0.49	WAR	1.00	6491	WAR	0.21	1387
		Sensible Load (Btuh)				0.24						167
		Latent Load (Btuh)										
13	Internal	a Occupants at 230 and 200 Btuh				0	0	0	0	0	0	0
		b Scenario number					0			0		0
		c Default Adjustments										0
		d Custom Appliances					0				0	0
		e Plants									0	0
14	Subtotals	Sum lines 6 through 12					16513	13805	1255		2835	1947
15	Duct Loads	EHLF & ESGF		0	0		0	0		0	0	
		ELG							0			0
16	Ventilation Loads	Vent Cfm	24	E Cfm	24		1415	341	546			
17	Winter Humidification Load	Gal/Day		0			0					
18	Piping Load						2580					
19	Blower Heat							0				
20	AED Excursion & Latent Moisture Migration Load							1547			155	
21	Total Load	Sum lines 13 through 19					20507	14146	1801		2835	1947

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 AHU 04 Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room			Bathroom 2				Bedroom 3						
2 Running Feet of Exposed Wall			5.5 ft				28.0 ft						
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft		277.0 ft²		9.0 ft		563.0 ft²				
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			11.0 x 5.5 ft		60.5 ft²		1.0 x 217.0 ft		217.0 ft²				
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		60.5 ft²		0 °		217.0 ft²				
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh			
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg	
6	Wall	12F-0sw	n	3.51	0.86	50	152	38		117	411	101	
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	n	17.28	8.46	6	106	52		0	0	0	
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0	
11	Wall	12F-0sw	e	3.51	0.86	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Door	11D0	e	0.00	0.00	0	0	0		0	0	0	
	Wall	12F-0sw	s	3.51	0.86	0	0	0		0	0	0	
	Glaz	Window	s	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	s	17.28	13.59	0	0	0		0	0	0	
	Glaz	Window	s	0.00	0.00	0	0	0		0	0	0	
	Door	11D0	s	0.00	0.00	0	0	0		0	0	0	
	Wall	12F-0sw	w	3.51	0.86	0	0	0		135	315	77	
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	w	17.28	40.23	0	0	0		0	0	0	
	Glaz	Window	w	17.28	40.23	0	0	0		0	0	0	
	Glaz	Window	w	17.28	40.23	0	0	0		0	0	0	
	Glaz	Window	w	17.28	40.23	0	0	0		45	784	1825	
	Door	11D0	w	0.00	0.00	0	0	0		0	0	0	
	Wall	12C-0sw	-	4.91	0.87	0	0	0		0	0	0	
	Door	11D0	n	21.06	9.55	0	0	0		0	0	0	
	Ceil	16A-28ad	-	1.84	2.31	61	111	140		217	398	502	
	Ceil	16B-30ad	-	0.00	0.00	0	0	0		0	0	0	
	Flor	19C-19cscp	-	0.00	0.00	0	0	0		0	0	0	
	Flor	19C-19cscp	-	0.00	0.00	0	0	0		0	0	0	
	Flor	19C-19cscp	-	0.92	0.22	0	0	0		0	0	0	
	Flor	21A-32t	-	0.00	0.00	0	0	0		0	0	0	
	Flor	21A-32t	-	0.00	0.00	0	0	0		0	0	0	
	Flor	21A-32t	-	0.00	0.00	0	0	0		0	0	0	
12	Infiltration	Heating Load (Btuh)		Effect ACH		0.49	WAR	305		WAR	1553		
		Sensible Load (Btuh)				0.24	0.05			0.24		187	
		Latent Load (Btuh)											
13	Internal	a Occupants at 230 and 200 Btuh				0		0	0	0		0	0
		b Scenario number						0				0	
		c Default Adjustments											
		d Custom Appliances						0	0			0	0
		e Plants							0				0
14	Subtotals	Sum lines 6 through 12						674	249			3461	3258
15	Duct Loads	EHLF & ESGF		0	0			0	0		0	0	
		ELG							0			0	
16	Ventilation Loads	Vent Cfm	24	E Cfm	24								
17	Winter Humidification Load	Gal/Day		0									
18	Piping Load												
19	Blower Heat												
20	AED Excursion & Latent Moisture Migration Load								-17			565	
21	Total Load	Sum lines 13 through 19						674	249			3461	3258

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 AHU 04 Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room			Bedroom 2						Bedroom 1					
2 Running Feet of Exposed Wall			12.5 ft						20.0 ft					
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft			502.0 ft²			9.0 ft			520.0 ft²		
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			1.0 x 171.3 ft			171.3 ft²			1.0 x 210.0 ft			210.0 ft²		
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °			171.3 ft²			0 °			210.0 ft²		
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh				
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg		
6	Wall	12F-0sw	n	3.51	0.86	5	16	4	0	0	0	0	0	0
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	n	17.28	8.46	0	0	0	0	0	0	0	0	0
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0	0	0
11	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0	0	0
	Wall	12F-0sw	e	3.51	0.86	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Door	11D0	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Wall	12F-0sw	s	3.51	0.86	5	16	4	27	95	23	0	0	0
	Glaz	Window	s	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	s	17.28	13.59	0	0	0	0	0	0	0	0	0
	Glaz	Window	s	0.00	0.00	0	0	0	0	0	0	0	0	0
	Door	11D0	s	0.00	0.00	0	0	0	0	0	0	0	0	0
	Wall	12F-0sw	w	3.51	0.86	104	267	66	153	378	93	0	0	0
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	w	17.28	40.23	0	0	0	0	0	0	0	0	0
	Glaz	Window	w	17.28	40.23	27	472	1098	0	0	0	0	0	0
	Glaz	Window	w	17.28	40.23	0	0	0	45	784	1825	0	0	0
	Door	11D0	w	0.00	0.00	0	0	0	0	0	0	0	0	0
	Wall	12C-0sw	-	4.91	0.87	0	0	0	0	0	0	0	0	0
	Door	11D0	n	21.06	9.55	0	0	0	0	0	0	0	0	0
	Ceil	16A-28ad	-	1.84	2.31	171	314	396	210	386	486	0	0	0
	Ceil	16B-30ad	-	0.00	0.00	0	0	0	0	0	0	0	0	0
	Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0	0	0	0
	Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0	0	0	0
	Flor	19C-19cscp	-	0.92	0.22	0	0	0	0	0	0	0	0	0
	Flor	21A-32t	-	0.00	0.00	0	0	0	0	0	0	0	0	0
	Flor	21A-32t	-	0.00	0.00	0	0	0	0	0	0	0	0	0
	Flor	21A-32t	-	0.00	0.00	0	0	0	0	0	0	0	0	0
12	Infiltration	Heating Load (Btuh)		Effect ACH		0.49	WAR	693	WAR	1110	0	0	0	0
		Sensible Load (Btuh)		0.24		0.11		84	0.17	134	0	0	0	0
		Latent Load (Btuh)									0	0	0	0
13	Internal	a Occupants at 230 and 200 Btuh				0	0	0	0	0	0	0	0	0
		b Scenario number				0	0	0	0	0	0	0	0	0
		c Default Adjustments				0	0	0	0	0	0	0	0	0
		d Custom Appliances				0	0	0	0	0	0	0	0	0
		e Plants				0	0	0	0	0	0	0	0	0
14	Subtotals	Sum lines 6 through 12					1779	1990		2751	3134			
15	Duct Loads	EHLF & ESGF		0	0		0	0		0	0			
		ELG							0				0	
16	Ventilation Loads	Vent Cfm	24	E Cfm	24									
17	Winter Humidification Load	Gal/Day		0										
18	Piping Load													
19	Blower Heat													
20	AED Excursion & Latent Moisture Migration Load							338			574			
21	Total Load	Sum lines 13 through 19					1779	1990		2751	3134			

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 AHU 04 Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room			Bathroom						Hallway 2								
2 Running Feet of Exposed Wall			0 ft						39.5 ft								
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft		286.0 ft ²		9.0 ft		1410.8 ft ²								
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			11.0 x 6.0 ft		66.0 ft ²		1.0 x 621.0 ft		621.0 ft ²								
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		66.0 ft ²		0 °		621.0 ft ²								
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh							
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg					
6	Wall	12F-0sw	n	3.51	0.86	0	0	0	0	0	0	0					
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0					
	Glaz	Window	n	17.28	8.46	0	0	0	0	0	0	0					
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0					
11	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0					
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0					
	Wall	12F-0sw	e	3.51	0.86	0	0	0	0	0	0	0					
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0					
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0					
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0					
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0					
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0					
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0					
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0					
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0					
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0					
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0					
	Glaz	Window	e	17.28	40.23	0	0	0	0	0	0	0					
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0					
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0					
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0					
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0					
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0					
	Door	11D0	e	0.00	0.00	0	0	0	0	0	0	0					
	Wall	12F-0sw	s	3.51	0.86	0	0	0	140	422	104	0					
	Glaz	Window	s	0.00	0.00	0	0	0	0	0	0	0					
	Glaz	Window	s	17.28	13.59	0	0	0	19	332	261	0					
	Glaz	Window	s	0.00	0.00	0	0	0	0	0	0	0					
	Door	11D0	s	0.00	0.00	0	0	0	0	0	0	0					
	Wall	12F-0sw	w	3.51	0.86	0	0	0	95	261	64	0					
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0					
	Glaz	Window	w	17.28	40.23	0	0	0	20	349	813	0					
	Glaz	Window	w	17.28	40.23	0	0	0	0	0	0	0					
	Glaz	Window	w	17.28	40.23	0	0	0	0	0	0	0					
	Door	11D0	w	0.00	0.00	0	0	0	0	0	0	0					
	Wall	12C-0sw	-	4.91	0.87	0	0	0	122	492	88	0					
	Door	11D0	n	21.06	9.55	0	0	0	21	449	204	0					
	Ceil	16A-28ad	-	1.84	2.31	66	121	153	621	1140	1436	0					
	Ceil	16B-30ad	-	0.00	0.00	0	0	0	0	0	0	0					
	Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0	0					
	Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0	0					
	Flor	19C-19cscp	-	0.92	0.22	0	0	0	4	3	1	0					
	Flor	21A-32t	-	0.00	0.00	0	0	0	0	0	0	0					
	Flor	21A-32t	-	0.00	0.00	0	0	0	0	0	0	0					
	Flor	21A-32t	-	0.00	0.00	0	0	0	0	0	0	0					
12	Infiltration	Heating Load (Btuh)		Effect ACH		0.49		WAR 0		0		WAR 0.22		1442			
		Sensible Load (Btuh)				0.24								174			
		Latent Load (Btuh)															
13	Internal	a Occupants at 230 and 200 Btuh				0		0		0		0		0			
		b Scenario number				0		0		0		0		0			
		c Default Adjustments				0		0		0		0		0			
		d Custom Appliances				0		0		0		0		0			
		e Plants				0		0		0		0		0			
14	Subtotals	Sum lines 6 through 12						121		143				4891		3085	
15	Duct Loads	EHLF & ESGF		0		0		0		0		0		0		0	
		ELG								0						0	
16	Ventilation Loads	Vent Cfm		24		E Cfm		24									
17	Winter Humidification Load	Gal/Day		0													
18	Piping Load																
19	Blower Heat																
20	AED Excursion & Latent Moisture Migration Load															-58	
21	Total Load	Sum lines 13 through 19						121		143				4891		3085	

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 AHU 05 Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room			AHU 05			Open Area							
2 Running Feet of Exposed Wall			196.0 ft			36.5 ft							
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft	3383.0 ft²		9.0 ft	775.5 ft²						
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			1080.3 ft²		1.0 x 315.3 ft		315.3 ft²						
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °	1080.3 ft²		0 °	315.3 ft²						
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh			
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg	
6	Wall	12F-0sw	n	3.51	0.86	302	976	240		32	111	27	
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0	
11	Glaz	Window	n	17.28	8.46	23	403	198		0	0	0	
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0	
	Wall	12F-0sw	e	3.51	0.86	464	1531	377		68	237	58	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	17.28	40.23	27	472	1098		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Door	11D0	e	0.00	0.00	0	0	0		0	0	0	
	Wall	12F-0sw	s	3.51	0.86	302	990	244		18	63	16	
	Glaz	Window	s	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	s	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	s	17.28	13.59	20	337	265		0	0	0	
	Door	11D0	s	0.00	0.00	0	0	0		0	0	0	
	Wall	12F-0sw	w	3.51	0.86	473	1593	392		167	519	128	
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0	
	Door	11D0	w	21.06	9.55	19	393	178		19	393	178	
	Wall	12C-0sw	-	4.91	0.87	225	1106	197		45	221	39	
	Door	11D0	n	0.00	0.00	0	0	0		0	0	0	
	Ceil	16A-28ad	-	1.84	2.31	23	43	54		0	0	0	
	Ceil	16B-30ad	-	1.73	1.54	5	9	8		0	0	0	
	Flor	19C-19cscp	-	0.92	0.22	48	44	11		42	39	9	
	Flor	19C-19cscp	-	0.00	0.00	0	0	0		0	0	0	
	Flor	19C-19cscp	-	0.00	0.00	0	0	0		0	0	0	
	Flor	21A-32t	-	0.00	0.00	0	0	0		0	0	0	
	Flor	21A-32t	-	1.08	0.00	27	29	0		0	0	0	
	Flor	21A-32t	-	0.00	0.00	0	0	0		0	0	0	
12	Infiltration	Heating Load (Btuh)		Effect ACH		0.99	WAR	9486		WAR	0.18	1748	
		Sensible Load (Btuh)				0.49	1.00					211	
		Latent Load (Btuh)											
13	Internal	a Occupants at 230 and 200 Btuh				0		0	0	0		0	
		b Scenario number						0				0	
		c Default Adjustments										0	
		d Custom Appliances						0				0	
		e Plants										0	
14	Subtotals	Sum lines 6 through 12						17413	4405	1834		3330	612
15	Duct Loads	EHLF & ESGF		0	0			0	0		0	0	
		ELG							0			0	
16	Ventilation Loads	Vent Cfm	0	E Cfm	0			0	0				
17	Winter Humidification Load	Gal/Day		0				0					
18	Piping Load							2580					
19	Blower Heat								0				
20	AED Excursion & Latent Moisture Migration Load											-55	
21	Total Load	Sum lines 13 through 19						19992	4405	1834		3330	612

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 AHU 05 Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room			Bedroom 02				Bedroom 01					
2 Running Feet of Exposed Wall			39.5 ft				43.0 ft					
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft		459.5 ft²		9.0 ft		540.5 ft²			
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			1.0 x 172.3 ft		172.3 ft²		19.0 x 12.0 ft		228.0 ft²			
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		172.3 ft²		0 °		228.0 ft²			
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6	Wall	12F-0sw	n	3.51	0.86	117	329	81		108	379	93
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0
11	Glaz	Window	n	17.28	8.46	23	403	198		0	0	0
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0
	Wall	12F-0sw	e	3.51	0.86	122	426	105		171	504	124
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	17.28	40.23	0	0	0		27	472	1098
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Door	11D0	e	0.00	0.00	0	0	0		0	0	0
	Wall	12F-0sw	s	3.51	0.86	0	0	0		108	379	93
	Glaz	Window	s	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	s	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	s	17.28	13.59	0	0	0		0	0	0
	Door	11D0	s	0.00	0.00	0	0	0		0	0	0
	Wall	12F-0sw	w	3.51	0.86	117	411	101		0	0	0
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0
	Door	11D0	w	21.06	9.55	0	0	0		0	0	0
	Wall	12C-0sw	-	4.91	0.87	0	0	0		0	0	0
	Door	11D0	n	0.00	0.00	0	0	0		0	0	0
	Ceil	16A-28ad	-	1.84	2.31	2	4	5		1	2	3
	Ceil	16B-30ad	-	1.73	1.54	0	0	0		0	0	0
	Flor	19C-19cscp	-	0.92	0.22	0	0	0		0	0	0
	Flor	19C-19cscp	-	0.00	0.00	0	0	0		0	0	0
	Flor	19C-19cscp	-	0.00	0.00	0	0	0		0	0	0
	Flor	21A-32t	-	0.00	0.00	0	0	0		0	0	0
	Flor	21A-32t	-	1.08	0.00	6	6	0		1	1	0
	Flor	21A-32t	-	0.00	0.00	0	0	0		0	0	0
12	Infiltration	Heating Load (Btuh)		Effect ACH		0.99	WAR	2191		WAR	2385	
		Sensible Load (Btuh)				0.49	0.23			0.25		287
		Latent Load (Btuh)										
13	Internal	a Occupants at 230 and 200 Btuh				0		0	0	0	0	0
		b Scenario number						0			0	
		c Default Adjustments										
		d Custom Appliances						0			0	0
		e Plants									0	0
14	Subtotals	Sum lines 6 through 12						3771	691		4123	1825
15	Duct Loads	EHLF & ESGF		0	0			0	0		0	0
		ELG							0			0
16	Ventilation Loads	Vent Cfm	0	E Cfm	0							
17	Winter Humidification Load	Gal/Day		0								
18	Piping Load											
19	Blower Heat											
20	AED Excursion & Latent Moisture Migration Load											
21	Total Load	Sum lines 13 through 19						3771	691		4123	1825

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 AHU 05 Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room			Bath 1						Suite 1					
2 Running Feet of Exposed Wall			5.0 ft						5.0 ft					
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft		271.0 ft ²		9.0 ft		263.0 ft ²					
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			12.0 x 5.0 ft		60.0 ft ²		1.0 x 64.3 ft		64.3 ft ²					
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		60.0 ft ²		0 °		64.3 ft ²					
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh				
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg		
6 Wall	12F-0sw	n	3.51	0.86	0	0	0	0	45	158	39			
Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0			
Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0			
Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0			
11 Glaz	Window	n	17.28	8.46	0	0	0	0	0	0	0			
Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0			
Wall	12F-0sw	e	3.51	0.86	0	0	0	0	0	0	0			
Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0			
Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0			
Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0			
Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0			
Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0			
Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0			
Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0			
Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0			
Glaz	Window	e	17.28	40.23	0	0	0	0	0	0	0			
Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0			
Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0			
Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0			
Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0			
Door	11D0	e	0.00	0.00	0	0	0	0	0	0	0			
Wall	12F-0sw	s	3.51	0.86	45	158	39	0	0	0	0			
Glaz	Window	s	0.00	0.00	0	0	0	0	0	0	0			
Glaz	Window	s	0.00	0.00	0	0	0	0	0	0	0			
Glaz	Window	s	17.28	13.59	0	0	0	0	0	0	0			
Door	11D0	s	0.00	0.00	0	0	0	0	0	0	0			
Wall	12F-0sw	w	3.51	0.86	0	0	0	0	0	0	0			
Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0			
Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0			
Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0			
Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0			
Door	11D0	w	21.06	9.55	0	0	0	0	0	0	0			
Wall	12C-0sw	-	4.91	0.87	0	0	0	0	0	0	0			
Door	11D0	n	0.00	0.00	0	0	0	0	0	0	0			
Ceil	16A-28ad	-	1.84	2.31	0	0	0	0	0	0	0			
Ceil	16B-30ad	-	1.73	1.54	0	0	0	0	0	0	0			
Flor	19C-19cscp	-	0.92	0.22	0	0	0	0	0	0	0			
Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0	0			
Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0	0			
Flor	21A-32t	-	0.00	0.00	0	0	0	0	0	0	0			
Flor	21A-32t	-	1.08	0.00	0	0	0	0	0	0	0			
Flor	21A-32t	-	0.00	0.00	0	0	0	0	0	0	0			
12 Infiltration	Heating Load (Btuh)		Effect ACH		0.99	WAR	277	0.03	WAR	277	0.03			
	Sensible Load (Btuh)				0.49						33			
	Latent Load (Btuh)													
13 Internal	a Occupants at 230 and 200 Btuh				0		0	0	0		0	0		
	b Scenario number						0				0			
	c Default Adjustments													
	d Custom Appliances						0				0	0		
	e Plants										0	0		
14 Subtotals	Sum lines 6 through 12						435	66			435	66		
15 Duct Loads	EHLF & ESGF		0	0			0	0			0	0		
	ELG							0				0		
16 Ventilation Loads	Vent Cfm	0	E Cfm	0										
17 Winter Humidification Load	Gal/Day				0									
18 Piping Load														
19 Blower Heat														
20 AED Excursion & Latent Moisture Migration Load														
21 Total Load	Sum lines 13 through 19						435	66			435	66		

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 AHU 05 Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room			Storage			Hallway 3						
2 Running Feet of Exposed Wall			45.5 ft			5.0 ft						
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft	509.0 ft ²		9.0 ft	253.5 ft ²					
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			11.5 x 13.0 ft	149.5 ft ²		11.0 x 3.5 ft	38.5 ft ²					
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °	149.5 ft ²		0 °	38.5 ft ²					
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6	Wall	12F-0sw	n	3.51	0.86	0	0	0	0	0	0	0
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0
11	Glaz	Window	n	17.28	8.46	0	0	0	0	0	0	0
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0
	Wall	12F-0sw	e	3.51	0.86	104	363	89	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	e	17.28	40.23	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0
	Door	11D0	e	0.00	0.00	0	0	0	0	0	0	0
	Wall	12F-0sw	s	3.51	0.86	117	342	84	0	0	0	0
	Glaz	Window	s	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	s	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	s	17.28	13.59	20	337	265	0	0	0	0
	Door	11D0	s	0.00	0.00	0	0	0	0	0	0	0
	Wall	12F-0sw	w	3.51	0.86	104	363	89	0	0	0	0
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0
	Door	11D0	w	21.06	9.55	0	0	0	0	0	0	0
	Wall	12C-0sw	-	4.91	0.87	86	420	75	45	221	39	0
	Door	11D0	n	0.00	0.00	0	0	0	0	0	0	0
	Ceil	16A-28ad	-	1.84	2.31	20	37	46	0	0	0	0
	Ceil	16B-30ad	-	1.73	1.54	5	9	8	0	0	0	0
	Flor	19C-19cscp	-	0.92	0.22	0	0	0	3	3	1	0
	Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0	0
	Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0	0
	Flor	21A-32t	-	0.00	0.00	0	0	0	0	0	0	0
	Flor	21A-32t	-	1.08	0.00	20	22	0	0	0	0	0
	Flor	21A-32t	-	0.00	0.00	0	0	0	0	0	0	0
12	Infiltration	Heating Load (Btuh)		Effect ACH		0.99	1997		WAR	0		
		Sensible Load (Btuh)				0.49			0			
		Latent Load (Btuh)										
13	Internal	a Occupants at 230 and 200 Btuh				0	0	0	0	0	0	0
		b Scenario number					0			0		0
		c Default Adjustments										0
		d Custom Appliances					0	0		0	0	0
		e Plants						0			0	0
14	Subtotals	Sum lines 6 through 12					3890	921		224	37	
15	Duct Loads	EHLF & ESGF		0	0		0	0		0	0	
		ELG						0			0	
16	Ventilation Loads	Vent Cfm	0	E Cfm	0							
17	Winter Humidification Load	Gal/Day		0								
18	Piping Load											
19	Blower Heat											
20	AED Excursion & Latent Moisture Migration Load							24			-3	
21	Total Load	Sum lines 13 through 19					3890	921		224	37	

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 AHU 05 Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room			Bath 2										
2 Running Feet of Exposed Wall			16.5 ft										
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft			311.0 ft²							
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			1.0 x 52.5 ft			52.5 ft²							
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °			52.5 ft²							
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh			
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg	
6	Wall	12F-0sw	n	3.51	0.86	0	0	0					
	Glaz	Window	n	0.00	0.00	0	0	0					
	Glaz	Window	n	0.00	0.00	0	0	0					
	Glaz	Window	n	0.00	0.00	0	0	0					
11	Glaz	Window	n	17.28	8.46	0	0	0					
	Glaz	Window	n	0.00	0.00	0	0	0					
	Wall	12F-0sw	e	3.51	0.86	0	0	0					
	Glaz	Window	e	0.00	0.00	0	0	0					
	Glaz	Window	e	0.00	0.00	0	0	0					
	Glaz	Window	e	0.00	0.00	0	0	0					
	Glaz	Window	e	0.00	0.00	0	0	0					
	Glaz	Window	e	0.00	0.00	0	0	0					
	Glaz	Window	e	0.00	0.00	0	0	0					
	Glaz	Window	e	0.00	0.00	0	0	0					
	Glaz	Window	e	0.00	0.00	0	0	0					
	Glaz	Window	e	17.28	40.23	0	0	0					
	Glaz	Window	e	0.00	0.00	0	0	0					
	Glaz	Window	e	0.00	0.00	0	0	0					
	Glaz	Window	e	0.00	0.00	0	0	0					
	Glaz	Window	e	0.00	0.00	0	0	0					
	Door	11D0	e	0.00	0.00	0	0	0					
	Wall	12F-0sw	s	3.51	0.86	14	47	12					
	Glaz	Window	s	0.00	0.00	0	0	0					
	Glaz	Window	s	0.00	0.00	0	0	0					
	Glaz	Window	s	17.28	13.59	0	0	0					
	Door	11D0	s	0.00	0.00	0	0	0					
	Wall	12F-0sw	w	3.51	0.86	86	300	74					
	Glaz	Window	w	0.00	0.00	0	0	0					
	Glaz	Window	w	0.00	0.00	0	0	0					
	Glaz	Window	w	0.00	0.00	0	0	0					
	Glaz	Window	w	0.00	0.00	0	0	0					
	Door	11D0	w	21.06	9.55	0	0	0					
	Wall	12C-0sw	-	4.91	0.87	50	243	43					
	Door	11D0	n	0.00	0.00	0	0	0					
	Ceil	16A-28ad	-	1.84	2.31	0	0	0					
	Ceil	16B-30ad	-	1.73	1.54	0	0	0					
	Flor	19C-19cscp	-	0.92	0.22	3	3	1					
	Flor	19C-19cscp	-	0.00	0.00	0	0	0					
	Flor	19C-19cscp	-	0.00	0.00	0	0	0					
	Flor	21A-32t	-	0.00	0.00	0	0	0					
	Flor	21A-32t	-	1.08	0.00	0	0	0					
	Flor	21A-32t	-	0.00	0.00	0	0	0					
12	Infiltration	Heating Load (Btuh)		Effect ACH		0.99	WAR	610					
		Sensible Load (Btuh)				0.49	0.06		74				
		Latent Load (Btuh)											
13	Internal	a Occupants at 230 and 200 Btuh				0		0	0				
		b Scenario number						0					
		c Default Adjustments											
		d Custom Appliances						0	0				
		e Plants							0				
14	Subtotals	Sum lines 6 through 12						1204	186				
15	Duct Loads	EHLF & ESGF		0	0			0	0				
		ELG							0				
16	Ventilation Loads	Vent Cfm	0	E Cfm	0								
17	Winter Humidification Load	Gal/Day		0									
18	Piping Load												
19	Blower Heat												
20	AED Excursion & Latent Moisture Migration Load												
21	Total Load	Sum lines 13 through 19						1204	186				

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 AHU 06 Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room			AHU 06			Main Living							
2 Running Feet of Exposed Wall			149.0 ft			8.5 ft							
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft	3972.5 ft²		9.0 ft	633.0 ft²						
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			1367.0 ft²			17.0 x 20.0 ft		340.0 ft²					
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °	1367.0 ft²		0 °	340.0 ft²						
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh			
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg	
6	Wall	12F-0sw	n	3.51	0.86	248	813	200		0	0	0	
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0	
11	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	n	17.28	8.46	16	276	135		0	0	0	
	Wall	12F-0sw	e	3.51	0.86	491	1665	410		5	16	4	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	17.28	40.23	16	276	644		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Door	11D0	e	0.00	0.00	0	0	0		0	0	0	
	Wall	12F-0sw	s	3.51	0.86	356	1132	279		0	0	0	
	Glaz	Window	s	17.28	16.71	12	207	200		0	0	0	
	Glaz	Window	s	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	s	0.00	0.00	0	0	0		0	0	0	
	Door	11D0	s	21.06	9.55	21	442	201		0	0	0	
	Wall	12F-0sw	w	3.51	0.86	122	426	105		0	0	0	
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0	
	Door	11D0	w	0.00	0.00	0	0	0		0	0	0	
	Wall	12C-0sw	-	4.91	0.87	126	619	110		72	354	63	
	Door	11D0	n	0.00	0.00	0	0	0		0	0	0	
	Ceil	16A-28ad	-	1.84	2.31	620	1139	1434		0	0	0	
	Ceil	16B-30ad	-	1.73	1.54	24	41	36		0	0	0	
	Flor	19C-19cscp	-	0.00	0.00	0	0	0		0	0	0	
	Flor	19C-19cscp	-	0.00	0.00	0	0	0		0	0	0	
	Flor	19C-19cscp	-	0.00	0.00	0	0	0		0	0	0	
	Flor	21A-32t	-	1.08	0.00	1367	1476	0		340	367	0	
	Flor	21A-32t	-	0.00	0.00	0	0	0		0	0	0	
	Flor	21A-32t	-	0.00	0.00	0	0	0		0	0	0	
12	Infiltration	Heating Load (Btuh)		Effect ACH		0.62	WAR	7489		WAR	28		
		Sensible Load (Btuh)						902		0.00		3	
		Latent Load (Btuh)											
												1448	
13	Internal	a Occupants at 230 and 200 Btuh				5		1150	1000	5		1150	1000
		b Scenario number						2100				900	
		c Default Adjustments											
		d Custom Appliances						0	0			0	0
		e Plants							0			0	0
14	Subtotals	Sum lines 6 through 12						16004	7907	2448		765	2056
15	Duct Loads	EHLF & ESGF		0	0			0	0		0	0	
		ELG									0	0	
16	Ventilation Loads	Vent Cfm	0	E Cfm	0			0	0		0	0	
17	Winter Humidification Load	Gal/Day		0				0					
18	Piping Load							2580					
19	Blower Heat								0				
20	AED Excursion & Latent Moisture Migration Load											-64	
21	Total Load	Sum lines 13 through 19						18583	7907	2448		765	2056

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 AHU 06 Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room			Kitchen				Mast Bed/WIC						
2 Running Feet of Exposed Wall			33.0 ft				20.0 ft						
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft		414.0 ft²		9.0 ft		624.0 ft²				
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			16.5 x 10.0 ft		165.0 ft²		1.0 x 265.3 ft		265.3 ft²				
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		165.0 ft²		0 °		265.3 ft²				
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh			
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg	
6	Wall	12F-0sw	n	3.51	0.86	59	205	51		117	355	87	
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0	
11	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0	
	Wall	12F-0sw	e	17.28	8.46	0	0	0		16	276	135	
	Glaz	Window	e	3.51	0.86	149	465	115		63	221	54	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	17.28	40.23	16	276	644		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0	
	Door	11D0	e	0.00	0.00	0	0	0		0	0	0	
	Wall	12F-0sw	s	3.51	0.86	90	316	78		0	0	0	
	Glaz	Window	s	17.28	16.71	0	0	0		0	0	0	
	Glaz	Window	s	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	s	0.00	0.00	0	0	0		0	0	0	
	Door	11D0	s	21.06	9.55	0	0	0		0	0	0	
	Wall	12F-0sw	w	3.51	0.86	0	0	0		0	0	0	
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0	
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0	
	Door	11D0	w	0.00	0.00	0	0	0		0	0	0	
	Wall	12C-0sw	-	4.91	0.87	0	0	0		0	0	0	
	Door	11D0	n	0.00	0.00	0	0	0		0	0	0	
	Ceil	16A-28ad	-	1.84	2.31	124	227	286		157	288	363	
	Ceil	16B-30ad	-	1.73	1.54	0	0	0		0	0	0	
	Flor	19C-19cscp	-	0.00	0.00	0	0	0		0	0	0	
	Flor	19C-19cscp	-	0.00	0.00	0	0	0		0	0	0	
	Flor	19C-19cscp	-	0.00	0.00	0	0	0		0	0	0	
	Flor	21A-32t	-	1.08	0.00	165	178	0		265	286	0	
	Flor	21A-32t	-	0.00	0.00	0	0	0		0	0	0	
	Flor	21A-32t	-	0.00	0.00	0	0	0		0	0	0	
12	Infiltration	Heating Load (Btuh)		Effect ACH		0.62	1831		WAR	1110			
		Sensible Load (Btuh)				0.31		221	WAR		134		
		Latent Load (Btuh)											
13	Internal	a Occupants at 230 and 200 Btuh				0	0	0	0	0	0	0	0
		b Scenario number					1200				0		
		c Default Adjustments											
		d Custom Appliances					0	0			0	0	
		e Plants						0				0	
14	Subtotals	Sum lines 6 through 12					3499	2679			2536	750	
15	Duct Loads	EHLF & ESGF		0	0		0	0		0	0		
		ELG							0			0	
16	Ventilation Loads	Vent Cfm	0	E Cfm	0								
17	Winter Humidification Load	Gal/Day		0									
18	Piping Load												
19	Blower Heat												
20	AED Excursion & Latent Moisture Migration Load							86			-23		
21	Total Load	Sum lines 13 through 19					3499	2679			2536	750	

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 AHU 06 Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room						Mast Bath			Side Entry			
2 Running Feet of Exposed Wall						14.5 ft			24.5 ft			
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)						9.0 ft 240.0 ft²			9.0 ft 402.5 ft²			
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)						6.5 x 8.0 ft 52.0 ft²			1.0 x 101.3 ft 101.3 ft²			
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)						0° 52.0 ft²			0° 101.3 ft²			
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6	Wall	12F-0sw	n	3.51	0.86	72	253	62		0	0	0
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0
11	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	n	17.28	8.46	0	0	0		0	0	0
	Wall	12F-0sw	e	3.51	0.86	59	205	51		149	521	128
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	17.28	40.23	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Door	11D0	e	0.00	0.00	0	0	0		0	0	0
	Wall	12F-0sw	s	3.51	0.86	0	0	0		72	179	44
	Glaz	Window	s	17.28	16.71	0	0	0		0	0	0
	Glaz	Window	s	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	s	0.00	0.00	0	0	0		0	0	0
	Door	11D0	s	21.06	9.55	0	0	0		21	442	201
	Wall	12F-0sw	w	3.51	0.86	0	0	0		0	0	0
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0
	Door	11D0	w	0.00	0.00	0	0	0		0	0	0
	Wall	12C-0sw	-	4.91	0.87	0	0	0		0	0	0
	Door	11D0	n	0.00	0.00	0	0	0		0	0	0
	Ceil	16A-28ad	-	1.84	2.31	52	95	120		101	186	234
	Ceil	16B-30ad	-	1.73	1.54	0	0	0		0	0	0
	Flor	19C-19cscp	-	0.00	0.00	0	0	0		0	0	0
	Flor	19C-19cscp	-	0.00	0.00	0	0	0		0	0	0
	Flor	19C-19cscp	-	0.00	0.00	0	0	0		0	0	0
	Flor	21A-32t	-	1.08	0.00	52	56	0		101	109	0
	Flor	21A-32t	-	0.00	0.00	0	0	0		0	0	0
	Flor	21A-32t	-	0.00	0.00	0	0	0		0	0	0
12	Infiltration	Heating Load (Btuh)		Effect ACH		0.62	WAR	804		WAR	1359	
		Sensible Load (Btuh)				0.31	0.11			0.18		164
		Latent Load (Btuh)										
13	Internal	a Occupants at 230 and 200 Btuh				0		0	0		0	0
		b Scenario number						0			0	
		c Default Adjustments										
		d Custom Appliances						0	0		0	0
		e Plants							0			0
14	Subtotals	Sum lines 6 through 12						1414	320		2797	748
15	Duct Loads	EHLF & ESGF		0	0			0	0		0	0
		ELG							0			0
16	Ventilation Loads	Vent Cfm	0	E Cfm	0							
17	Winter Humidification Load	Gal/Day		0								
18	Piping Load											
19	Blower Heat											
20	AED Excursion & Latent Moisture Migration Load											-23
21	Total Load	Sum lines 13 through 19						1414	320		2797	748

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 AHU 06 Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room			Guest			Guest Bed							
2 Running Feet of Exposed Wall			10.5 ft			29.0 ft							
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft		432.5 ft ²	9.0 ft		450.5 ft ²					
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			1.0 x 138.5 ft		138.5 ft ²	1.0 x 140.3 ft		140.3 ft ²					
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		138.5 ft ²	0 °		140.3 ft ²					
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh			
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg	
6	Wall	12F-0sw	n	3.51	0.86	0	0	0	0	0	0	0	
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0	
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0	
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0	
11	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0	
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0	
	Wall	12F-0sw	e	17.28	8.46	0	0	0	0	0	0	0	
	Glaz	Window	e	3.51	0.86	0	0	0	68	237	58		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0		
	Glaz	Window	e	17.28	40.23	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0		
	Door	11D0	e	0.00	0.00	0	0	0	0	0	0		
	Wall	12F-0sw	s	3.51	0.86	95	290	71	99	347	86		
	Glaz	Window	s	17.28	16.71	12	207	200	0	0	0		
	Glaz	Window	s	0.00	0.00	0	0	0	0	0	0		
	Glaz	Window	s	0.00	0.00	0	0	0	0	0	0		
	Door	11D0	s	21.06	9.55	0	0	0	0	0	0		
	Wall	12F-0sw	w	3.51	0.86	0	0	0	95	332	82		
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0		
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0		
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0		
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0		
	Door	11D0	w	0.00	0.00	0	0	0	0	0	0		
	Wall	12C-0sw	-	4.91	0.87	0	0	0	0	0	0		
	Door	11D0	n	0.00	0.00	0	0	0	0	0	0		
	Ceil	16A-28ad	-	1.84	2.31	91	166	209	44	80	101		
	Ceil	16B-30ad	-	1.73	1.54	10	17	15	2	3	3		
	Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0		
	Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0		
	Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0		
	Flor	21A-32t	-	1.08	0.00	139	150	0	140	151	0		
	Flor	21A-32t	-	0.00	0.00	0	0	0	0	0	0		
	Flor	21A-32t	-	0.00	0.00	0	0	0	0	0	0		
12	Infiltration	Heating Load (Btuh)		Effect ACH		0.62	WAR	583	WAR	1609			
		Sensible Load (Btuh)				0.31	0.08		0.21		194		
		Latent Load (Btuh)											
13	Internal	a Occupants at 230 and 200 Btuh				0		0	0		0	0	
		b Scenario number						0			0		
		c Default Adjustments											
		d Custom Appliances						0			0	0	
		e Plants									0	0	
14	Subtotals	Sum lines 6 through 12						1412	625		2760	507	
15	Duct Loads	EHLF & ESGF		0	0			0	0		0	0	
		ELG							0			0	
16	Ventilation Loads	Vent Cfm	0	E Cfm	0								
17	Winter Humidification Load	Gal/Day		0									
18	Piping Load												
19	Blower Heat												
20	AED Excursion & Latent Moisture Migration Load								58			-16	
21	Total Load	Sum lines 13 through 19						1412	625		2760	507	

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 AHU 06 Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room			Guest Bath						Hall/G-Suite								
2 Running Feet of Exposed Wall			3.0 ft						6.0 ft								
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft			261.0 ft ²			9.0 ft			515.0 ft ²					
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			1.0 x 47.8 ft			47.8 ft ²			1.0 x 117.0 ft			117.0 ft ²					
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °			47.8 ft ²			0 °			117.0 ft ²					
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh							
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg					
6	Wall	12F-0sw	n	3.51	0.86	0	0	0	0	0	0	0	0	0	0		
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0	0	0	0		
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0	0	0	0		
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0	0	0	0		
11	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0	0	0	0		
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0	0	0	0		
	Glaz	Window	n	17.28	8.46	0	0	0	0	0	0	0	0	0	0		
	Wall	12F-0sw	e	3.51	0.86	0	0	0	0	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0	0		
	Glaz	Window	e	17.28	40.23	0	0	0	0	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0	0		
	Door	11D0	e	0.00	0.00	0	0	0	0	0	0	0	0	0	0		
	Wall	12F-0sw	s	3.51	0.86	0	0	0	0	0	0	0	0	0	0		
	Glaz	Window	s	17.28	16.71	0	0	0	0	0	0	0	0	0	0		
	Glaz	Window	s	0.00	0.00	0	0	0	0	0	0	0	0	0	0		
	Glaz	Window	s	0.00	0.00	0	0	0	0	0	0	0	0	0	0		
	Door	11D0	s	21.06	9.55	0	0	0	0	0	0	0	0	0	0		
	Wall	12F-0sw	w	3.51	0.86	27	95	23	0	0	0	0	0	0	0		
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0	0	0	0		
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0	0	0	0		
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0	0	0	0		
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0	0	0	0		
	Door	11D0	w	0.00	0.00	0	0	0	0	0	0	0	0	0	0		
	Wall	12C-0sw	-	4.91	0.87	0	0	0	54	265	47	0	0	0	0		
	Door	11D0	n	0.00	0.00	0	0	0	0	0	0	0	0	0	0		
	Ceil	16A-28ad	-	1.84	2.31	12	22	27	41	74	94	0	0	0	0		
	Ceil	16B-30ad	-	1.73	1.54	9	15	13	3	5	5	0	0	0	0		
	Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0	0	0	0	0		
	Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0	0	0	0	0		
	Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0	0	0	0	0		
	Flor	21A-32t	-	1.08	0.00	48	52	0	117	126	0	0	0	0	0		
	Flor	21A-32t	-	0.00	0.00	0	0	0	0	0	0	0	0	0	0		
	Flor	21A-32t	-	0.00	0.00	0	0	0	0	0	0	0	0	0	0		
12	Infiltration	Heating Load (Btuh)		Effect ACH		0.62		WAR		166		WAR		0			
		Sensible Load (Btuh)				0.31		0.02				0					
		Latent Load (Btuh)															
13	Internal	a Occupants at 230 and 200 Btuh				0		0		0		0		0			
		b Scenario number				0		0		0		0		0			
		c Default Adjustments				0		0		0		0		0			
		d Custom Appliances				0		0		0		0		0			
		e Plants				0		0		0		0		0			
14	Subtotals	Sum lines 6 through 12						349		81				471		141	
15	Duct Loads	EHLF & ESGF		0		0		0		0		0		0		0	
		ELG								0						0	
16	Ventilation Loads	Vent Cfm		0		E Cfm		0									
17	Winter Humidification Load	Gal/Day				0											
18	Piping Load																
19	Blower Heat																
20	AED Excursion & Latent Moisture Migration Load									-3				-4			
21	Total Load	Sum lines 13 through 19						349		81				471		141	

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 AHU 07 Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room			AHU 07						Play Room					
2 Running Feet of Exposed Wall			136.0 ft						72.5 ft					
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft		3571.5 ft²		9.0 ft		1243.0 ft²					
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)					1506.5 ft²		1.0 x 837.3 ft		837.3 ft²					
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		1506.5 ft²		0 °		837.3 ft²					
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh				
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg		
6	Wall	12F-0sw	n	3.51	0.86	302	946	233		185	535	132		
	Glaz	Window	n	17.28	8.46	32	553	271		32	553	271		
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0		
11	Wall	12F-0sw	e	3.51	0.86	117	355	87		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	17.28	40.23	16	276	644		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0		
	Door	11D0	e	0.00	0.00	0	0	0		0	0	0		
	Wall	12F-0sw	s	3.51	0.86	194	679	167		36	126	31		
	Glaz	Window	s	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	s	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	s	0.00	0.00	0	0	0		0	0	0		
	Door	11D0	s	0.00	0.00	0	0	0		0	0	0		
	Wall	12F-0sw	w	3.51	0.86	486	1706	420		392	1374	338		
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0		
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0		
	Door	11D0	w	0.00	0.00	0	0	0		0	0	0		
	Wall	12C-0sw	-	4.91	0.87	126	619	110		41	199	35		
	Door	11D0	n	0.00	0.00	0	0	0		0	0	0		
	Ceil	16A-28ad	-	1.84	2.31	1225	2248	2831		817	1500	1888		
	Ceil	16B-30ad	-	0.00	0.00	0	0	0		0	0	0		
	Flor	19C-19cscp	-	0.00	0.00	0	0	0		0	0	0		
	Flor	19C-19cscp	-	0.00	0.00	0	0	0		0	0	0		
	Flor	19C-19cscp	-	0.00	0.00	0	0	0		0	0	0		
	Flor	21A-32t	-	1.08	0.00	1507	1627	0		837	904	0		
	Flor	21A-32t	-	0.00	0.00	0	0	0		0	0	0		
	Flor	21A-32t	-	0.00	0.00	0	0	0		0	0	0		
12	Infiltration	Heating Load (Btuh)		Effect ACH		0.51	WAR	6768		WAR	0.56	3772		
		Sensible Load (Btuh)				0.25	1.00					454		
		Latent Load (Btuh)												
13	Internal	a Occupants at 230 and 200 Btuh				0		0	0	0		0		
		b Scenario number						0				0		
		c Default Adjustments										0		
		d Custom Appliances						0	0			0		
		e Plants							0			0		
14	Subtotals	Sum lines 6 through 12						15777	5579	1308		8964	3058	
15	Duct Loads	EHLF & ESGF		0	0			0	0		0	0		
		ELG							0			0		
16	Ventilation Loads	Vent Cfm	0	E Cfm	0			0	0					
17	Winter Humidification Load	Gal/Day		0				0						
18	Piping Load							2580						
19	Blower Heat								0					
20	AED Excursion & Latent Moisture Migration Load											-93		
21	Total Load	Sum lines 13 through 19						18357	5579	1308		8964	3058	

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 AHU 07 Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room			ToyCL						Bathroom 1						
2 Running Feet of Exposed Wall			3.5 ft						0 ft						
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft		293.5 ft²		9.0 ft		288.5 ft²						
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			10.0 x 6.5 ft		65.0 ft²		1.0 x 65.3 ft		65.3 ft²						
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		65.0 ft²		0 °		65.3 ft²						
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh					
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg			
6	Wall	12F-0sw	n	3.51	0.86	0	0	0	0	0	0	0			
	Glaz	Window	n	17.28	8.46	0	0	0	0	0	0	0			
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0			
11	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0			
	Wall	12F-0sw	e	3.51	0.86	0	0	0	0	0	0	0			
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	e	17.28	40.23	0	0	0	0	0	0	0			
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0			
	Door	11D0	e	0.00	0.00	0	0	0	0	0	0	0			
	Wall	12F-0sw	s	3.51	0.86	0	0	0	0	0	0	0			
	Glaz	Window	s	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	s	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	s	0.00	0.00	0	0	0	0	0	0	0			
	Door	11D0	s	0.00	0.00	0	0	0	0	0	0	0			
	Wall	12F-0sw	w	3.51	0.86	0	0	0	0	0	0	0			
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0			
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0			
	Door	11D0	w	0.00	0.00	0	0	0	0	0	0	0			
	Wall	12C-0sw	-	4.91	0.87	32	155	28	0	0	0	0			
	Door	11D0	n	0.00	0.00	0	0	0	0	0	0	0			
	Ceil	16A-28ad	-	1.84	2.31	15	28	35	25	46	58	0			
	Ceil	16B-30ad	-	0.00	0.00	0	0	0	0	0	0	0			
	Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0	0			
	Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0	0			
	Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0	0			
	Flor	21A-32t	-	1.08	0.00	65	70	0	65	70	0	0			
	Flor	21A-32t	-	0.00	0.00	0	0	0	0	0	0	0			
	Flor	21A-32t	-	0.00	0.00	0	0	0	0	0	0	0			
12	Infiltration	Heating Load (Btuh)		Effect ACH		0.51		WAR 0		0		WAR 0			
		Sensible Load (Btuh)				0.25									
		Latent Load (Btuh)													
13	Internal	a Occupants at 230 and 200 Btuh				0		0		0		0			
		b Scenario number						0				0			
		c Default Adjustments										0			
		d Custom Appliances						0				0			
		e Plants						0				0			
14	Subtotals	Sum lines 6 through 12						253		60		116		56	
15	Duct Loads	EHLF & ESGF		0		0		0		0		0		0	
		ELG								0				0	
16	Ventilation Loads	Vent Cfm		0		E Cfm		0							
17	Winter Humidification Load	Gal/Day		0											
18	Piping Load														
19	Blower Heat														
20	AED Excursion & Latent Moisture Migration Load											-2			
21	Total Load	Sum lines 13 through 19						253		60		116		56	

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 AHU 07 Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room			Laundry/Linen						Powder				
2 Running Feet of Exposed Wall			6.0 ft						0 ft				
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft			526.0 ft ²			189.5 ft ²				
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			1.0 x 125.0 ft			125.0 ft ²			5.0 x 6.5 ft				
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °			125.0 ft ²			0 °				
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh			
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg	
6	Wall	12F-0sw	n	3.51	0.86	0	0	0	0	0	0	0	
	Glaz	Window	n	17.28	8.46	0	0	0	0	0	0	0	
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0	
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0	
11	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0	
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0	
	Wall	12F-0sw	e	3.51	0.86	0	0	0	0	0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	
	Glaz	Window	e	17.28	40.23	0	0	0	0	0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	
	Door	11D0	e	0.00	0.00	0	0	0	0	0	0	0	
	Wall	12F-0sw	s	3.51	0.86	0	0	0	0	0	0	0	
	Glaz	Window	s	0.00	0.00	0	0	0	0	0	0	0	
	Glaz	Window	s	0.00	0.00	0	0	0	0	0	0	0	
	Glaz	Window	s	0.00	0.00	0	0	0	0	0	0	0	
	Door	11D0	s	0.00	0.00	0	0	0	0	0	0	0	
	Wall	12F-0sw	w	3.51	0.86	0	0	0	0	0	0	0	
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0	
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0	
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0	
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0	
	Door	11D0	w	0.00	0.00	0	0	0	0	0	0	0	
	Wall	12C-0sw	-	4.91	0.87	54	265	47	0	0	0	0	
	Door	11D0	n	0.00	0.00	0	0	0	0	0	0	0	
	Ceil	16A-28ad	-	1.84	2.31	0	0	0	25	46	58	0	
	Ceil	16B-30ad	-	0.00	0.00	0	0	0	0	0	0	0	
	Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0	0	
	Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0	0	
	Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0	0	
	Flor	21A-32t	-	1.08	0.00	125	135	0	33	35	0	0	
	Flor	21A-32t	-	0.00	0.00	0	0	0	0	0	0	0	
	Flor	21A-32t	-	0.00	0.00	0	0	0	0	0	0	0	
12	Infiltration	Heating Load (Btuh)		Effect ACH		0.51		WAR 0		0		WAR 0	
		Sensible Load (Btuh)				0.25							
		Latent Load (Btuh)											
13	Internal	a Occupants at 230 and 200 Btuh				0		0		0		0	
		b Scenario number				0		0		0		0	
		c Default Adjustments											
		d Custom Appliances				0		0		0		0	
		e Plants				0		0		0		0	
14	Subtotals	Sum lines 6 through 12				400		46		81		56	
15	Duct Loads	EHLF & ESGF		0		0		0		0		0	
		ELG						0				0	
16	Ventilation Loads	Vent Cfm	0	E Cfm	0								
17	Winter Humidification Load	Gal/Day		0									
18	Piping Load												
19	Blower Heat												
20	AED Excursion & Latent Moisture Migration Load							-1					
21	Total Load	Sum lines 13 through 19				400		46		81		56	

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 AHU 07 Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room			Bedroom			St/Stair								
2 Running Feet of Exposed Wall			26.0 ft			28.0 ft								
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft 495.5 ft²			9.0 ft 535.5 ft²								
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			1.0 x 180.3 ft 180.3 ft²			1.0 x 201.3 ft 201.3 ft²								
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0° 180.3 ft²			0° 201.3 ft²								
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh				
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg		
6	Wall	12F-0sw	n	3.51	0.86	117	411	101	0	0	0	0	0	0
	Glaz	Window	n	17.28	8.46	0	0	0	0	0	0	0	0	0
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0	0	0
11	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	n	0.00	0.00	0	0	0	0	0	0	0	0	0
	Wall	12F-0sw	e	3.51	0.86	117	355	87	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	17.28	40.23	16	276	644	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Door	11D0	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	Wall	12F-0sw	s	3.51	0.86	0	0	0	158	553	136	0	0	0
	Glaz	Window	s	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	s	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	s	0.00	0.00	0	0	0	0	0	0	0	0	0
	Door	11D0	s	0.00	0.00	0	0	0	0	0	0	0	0	0
	Wall	12F-0sw	w	3.51	0.86	0	0	0	95	332	82	0	0	0
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0	0	0
	Glaz	Window	w	0.00	0.00	0	0	0	0	0	0	0	0	0
	Door	11D0	w	0.00	0.00	0	0	0	0	0	0	0	0	0
	Wall	12C-0sw	-	4.91	0.87	0	0	0	0	0	0	0	0	0
	Door	11D0	n	0.00	0.00	0	0	0	0	0	0	0	0	0
	Ceil	16A-28ad	-	1.84	2.31	157	287	362	186	342	431	0	0	0
	Ceil	16B-30ad	-	0.00	0.00	0	0	0	0	0	0	0	0	0
	Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0	0	0	0
	Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0	0	0	0
	Flor	19C-19cscp	-	0.00	0.00	0	0	0	0	0	0	0	0	0
	Flor	21A-32t	-	1.08	0.00	180	195	0	201	217	0	0	0	0
	Flor	21A-32t	-	0.00	0.00	0	0	0	0	0	0	0	0	0
	Flor	21A-32t	-	0.00	0.00	0	0	0	0	0	0	0	0	0
12	Infiltration	Heating Load (Btuh)		Effect ACH		0.51	WAR	1442	WAR	1553	0	0	0	0
		Sensible Load (Btuh)				0.25	0.21		0.23		187			
		Latent Load (Btuh)												
13	Internal	a Occupants at 230 and 200 Btuh				0	0	0	0	0	0	0	0	0
		b Scenario number					0				0			0
		c Default Adjustments												0
		d Custom Appliances					0				0			0
		e Plants									0			0
14	Subtotals	Sum lines 6 through 12					2966	1492		2997	811			
15	Duct Loads	EHLF & ESGF		0	0		0	0		0	0			0
		ELG							0					0
16	Ventilation Loads	Vent Cfm	0	E Cfm	0									
17	Winter Humidification Load	Gal/Day		0										
18	Piping Load													
19	Blower Heat													
20	AED Excursion & Latent Moisture Migration Load							124			-25			
21	Total Load	Sum lines 13 through 19					2966	1492		2997	811			

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 Mini Split Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room			Mini Split						Guest Room			
2 Running Feet of Exposed Wall			31.0 ft						25.5 ft			
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft		876.0 ft²		9.0 ft		502.0 ft²			
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)					280.5 ft²		1.0 x 184.3 ft		184.3 ft²			
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		280.5 ft²		0 °		184.3 ft²			
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6	Wall	12F-0sw	n	3.51	0.86	162	530	130		113	356	88
	Glaz	Window	n	17.28	8.46	11	191	94		11	191	94
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	n	0.00	0.00	0	0	0		0	0	0
11	Wall	12F-0sw	e	3.51	0.86	117	411	101		117	411	101
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	e	0.00	0.00	0	0	0		0	0	0
	Door	11D0	e	0.00	0.00	0	0	0		0	0	0
	Wall	12F-0sw	s	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	s	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	s	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	s	0.00	0.00	0	0	0		0	0	0
	Door	11D0	s	0.00	0.00	0	0	0		0	0	0
	Wall	12F-0sw	w	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0
	Glaz	Window	w	0.00	0.00	0	0	0		0	0	0
	Door	11D0	w	0.00	0.00	0	0	0		0	0	0
	Wall	12C-0sw	-	0.00	0.00	0	0	0		0	0	0
	Door	11D0	n	0.00	0.00	0	0	0		0	0	0
	Ceil	16A-28ad	-	1.84	2.31	24	44	55		24	44	55
	Ceil	16B-30ad	-	0.00	0.00	0	0	0		0	0	0
	Flor	19C-19cscp	-	0.00	0.00	0	0	0		0	0	0
	Flor	19C-19cscp	-	0.00	0.00	0	0	0		0	0	0
	Flor	19C-19cscp	-	0.00	0.00	0	0	0		0	0	0
	Flor	21A-32t	-	0.00	0.00	0	0	0		0	0	0
	Flor	21A-32t	-	0.00	0.00	0	0	0		0	0	0
	Flor	21A-32t	-	1.08	0.00	235	253	0		138	149	0
12	Infiltration	Heating Load (Btuh)		Effect ACH	0.69	WAR 1.00	1720		WAR 0.82	1415		
		Sensible Load (Btuh)			0.35			207			170	
		Latent Load (Btuh)						332				
13	Internal	a Occupants at 230 and 200 Btuh				0	0	0	0	0	0	0
		b Scenario number					0			0		0
		c Default Adjustments										0
		d Custom Appliances					0			0		0
		e Plants								0		0
14	Subtotals	Sum lines 6 through 12					3149	588	332		2566	508
15	Duct Loads	EHLF & ESGF		0	0		0	0		0	0	
		ELG							0			0
16	Ventilation Loads	Vent Cfm	0	E Cfm	0		0	0		0	0	
17	Winter Humidification Load	Gal/Day		0			0					
18	Piping Load						2580					
19	Blower Heat							0				
20	AED Excursion & Latent Moisture Migration Load									0		
21	Total Load	Sum lines 13 through 19					5728	588	332		2566	508

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Right-J8® Form J1 Mini Split Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

1 Name of Room			Bath/Suite									
2 Running Feet of Exposed Wall			5.5 ft									
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft			374.0 ft²						
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			17.5 x 5.5 ft			96.3 ft²						
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °			96.3 ft²						
Type of Exposure	Const. Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6	Wall	12F-0sw	n	3.51	0.86	50	174	43				
	Glaz	Window	n	17.28	8.46	0	0	0				
	Glaz	Window	n	0.00	0.00	0	0	0				
	Glaz	Window	n	0.00	0.00	0	0	0				
11	Glaz	Window	n	0.00	0.00	0	0	0				
	Glaz	Window	n	0.00	0.00	0	0	0				
	Wall	12F-0sw	e	3.51	0.86	0	0	0				
	Glaz	Window	e	0.00	0.00	0	0	0				
	Glaz	Window	e	0.00	0.00	0	0	0				
	Glaz	Window	e	0.00	0.00	0	0	0				
	Glaz	Window	e	0.00	0.00	0	0	0				
	Glaz	Window	e	0.00	0.00	0	0	0				
	Glaz	Window	e	0.00	0.00	0	0	0				
	Glaz	Window	e	0.00	0.00	0	0	0				
	Glaz	Window	e	0.00	0.00	0	0	0				
	Glaz	Window	e	0.00	0.00	0	0	0				
	Glaz	Window	e	0.00	0.00	0	0	0				
	Door	11D0	e	0.00	0.00	0	0	0				
	Wall	12F-0sw	s	0.00	0.00	0	0	0				
	Glaz	Window	s	0.00	0.00	0	0	0				
	Glaz	Window	s	0.00	0.00	0	0	0				
	Glaz	Window	s	0.00	0.00	0	0	0				
	Door	11D0	s	0.00	0.00	0	0	0				
	Wall	12F-0sw	w	0.00	0.00	0	0	0				
	Glaz	Window	w	0.00	0.00	0	0	0				
	Glaz	Window	w	0.00	0.00	0	0	0				
	Glaz	Window	w	0.00	0.00	0	0	0				
	Glaz	Window	w	0.00	0.00	0	0	0				
	Door	11D0	w	0.00	0.00	0	0	0				
	Wall	12C-0sw	-	0.00	0.00	0	0	0				
	Door	11D0	n	0.00	0.00	0	0	0				
	Ceil	16A-28ad	-	1.84	2.31	0	0	0				
	Ceil	16B-30ad	-	0.00	0.00	0	0	0				
	Flor	19C-19cscp	-	0.00	0.00	0	0	0				
	Flor	19C-19cscp	-	0.00	0.00	0	0	0				
	Flor	19C-19cscp	-	0.00	0.00	0	0	0				
	Flor	21A-32t	-	0.00	0.00	0	0	0				
	Flor	21A-32t	-	0.00	0.00	0	0	0				
	Flor	21A-32t	-	1.08	0.00	96	104	0				
12	Infiltration	Heating Load (Btuh)		Effect ACH	0.69	WAR 0.18	305					
		Sensible Load (Btuh)					37					
		Latent Load (Btuh)										
13	Internal	a Occupants at 230 and 200 Btuh					0	0	0			
		b Scenario number										
		c Default Adjustments										
		d Custom Appliances										
		e Plants										
14	Subtotals	Sum lines 6 through 12						583	80			
15	Duct Loads	EHLF & ESGF		0	0		0	0				
		ELG						0				
16	Ventilation Loads	Vent Cfm	0	E Cfm	0							
17	Winter Humidification Load	Gal/Day		0								
18	Piping Load											
19	Blower Heat											
20	AED Excursion & Latent Moisture Migration Load							0				
21	Total Load	Sum lines 13 through 19						583	80			

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Component Constructions

Entire House

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method	Simplified	
Daily range (°F)	-	20 (M)	Construction quality	Semi-loose	
Wet bulb (°F)	-	73	Fireplaces	1 (Semi-loose)	
Wind speed (mph)	15.0	7.5			

Construction descriptions

Construction descriptions	Or	Area ft²	U-value Btuh/ft²·°F	Insul R ft²·°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud								
	n	1682	0.065	21.0	3.51	5902	0.86	1454
	e	1945	0.065	21.0	3.40	6622	0.84	1631
	s	1509	0.065	21.0	3.26	4923	0.80	1213
	w	1814	0.065	21.0	3.26	5909	0.80	1455
	all	6949	0.065	21.0	3.36	23357	0.83	5753
Partitions								
12C-0sw: Frm wall, stucco ext, r-13 cav ins, 2"x4" wood frm, 16" o.c. stud								
		840	0.091	13.0	4.91	4128	0.87	734
Windows								
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = green grass (0.23); 7 ft head ht								
	n	80	0.320	0	17.3	1378	8.46	675
	s	70	0.320	0	17.3	1215	16.7	1175
	all	150	0.320	0	17.3	2594	12.3	1850
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = green grass (0.23); 1.42 ft overhang (2.04 ft window ht, 1.67 ft sep.); 7 ft head ht								
	n	6	0.320	0	17.3	106	8.46	52
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = green grass (0.23); 1.42 ft overhang (4.04 ft window ht, 1 ft sep.); 7 ft head ht								
	n	8	0.320	0	17.3	140	8.46	68
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = green grass (0.23); 1.42 ft overhang (5 ft window ht, 1.67 ft sep.); 7 ft head ht								
	n	23	0.320	0	17.3	403	8.46	198
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 7 ft head ht								
	n	33	0.320	0	17.3	564	8.46	276
	e	32	0.320	0	17.3	553	40.2	1287
	w	238	0.320	0	13.7	3243	31.8	7550
	all	302	0.320	0	14.4	4360	30.2	9113
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (2.04 ft window ht, 1.33 ft sep.); 7 ft head ht								
	e	8	0.320	0	17.3	141	40.2	328
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (4 ft window ht, 2.42 ft sep.); 7 ft head ht								
	e	10	0.320	0	17.3	173	40.2	402



Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (4 ft window ht, 2.75 ft sep.); 7 ft head ht	e	12	0.320	0	17.3	207	40.2	483
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (5 ft window ht, 1.33 ft sep.); 7 ft head ht	e	23	0.320	0	17.3	403	40.2	939
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (5 ft window ht, 2.42 ft sep.); 7 ft head ht	e	58	0.320	0	17.3	1008	40.2	2347
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (5.04 ft window ht, 1.33 ft sep.); 7 ft head ht	e	27	0.320	0	17.3	472	40.2	1098
	w	27	0.320	0	17.3	472	40.2	1098
	w	91	0.320	0	17.3	1568	40.2	3650
	all	145	0.320	0	17.3	2511	40.2	5846
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (5.04 ft window ht, 1.67 ft sep.); 7 ft head ht	e	27	0.320	0	17.3	472	40.2	1098
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (5.04 ft window ht, 6 ft sep.); 7 ft head ht	e	27	0.320	0	17.3	472	40.2	1098
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (6.04 ft window ht, 2.42 ft sep.); 7 ft head ht	e	17	0.320	0	17.3	287	40.2	668
	e	65	0.320	0	17.3	1131	40.2	2632
	all	82	0.320	0	17.3	1418	40.2	3301
	all	82	0.320	0	17.3	1418	40.2	3301
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = green grass (0.23); 1.42 ft overhang (4.04 ft window ht, 1.67 ft sep.); 7 ft head ht	s	19	0.320	0	17.3	332	13.6	261
	s	20	0.320	0	17.3	337	13.6	265
	all	39	0.320	0	17.3	669	13.6	526
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (4.04 ft window ht, 1.33 ft sep.); 7 ft head ht	w	20	0.320	0	17.3	349	40.2	813

Doors

11D0: Door, wd sc type	e	24	0.390	0	21.1	505	9.55	229
	s	146	0.390	0	13.0	1902	5.90	863
	w	43	0.390	0	21.1	899	9.55	408
	n	42	0.390	0	21.1	885	9.55	401
	all	255	0.390	0	16.4	4191	7.46	1901

Ceilings

16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh		5042	0.034	28.0	1.75	8819	2.20	11105
16B-30ad: Attic ceiling, asphalt shingles roof mat, r-31 roof ins, r-30 ceil ins		49	0.032	30.0	1.73	84	1.54	75

Floors

19C-19cscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, r-2 ext ins, r-19 cav ins, tight crwl ovr, r-11 wall insul		48	0.049	30.0	0.92	44	0.22	11
		24	0.049	30.0	0.92	22	0.22	5
		4	0.049	30.0	0.92	3	0.22	1
		75	0.049	30.0	0.92	69	0.22	17
	all	75	0.049	30.0	0.92	69	0.22	17
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth		2874	0.020	0	1.08	3103	0	0
		27	0.020	0	1.08	29	0	0
		2139	0.020	0	0.95	2026	0	0
	all	5039	0.020	0	1.02	5159	0	0



Component Constructions

AHU 04

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

Construction descriptions	Or	Area ft ²	U-value Btuh/ft ² ·°F	Insul R ft ² ·°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud	n	291	0.065	21.0	3.51	1021	0.86	251
	e	72	0.065	21.0	3.51	252	0.86	62
	s	152	0.065	21.0	3.51	533	0.86	131
	w	348	0.065	21.0	3.51	1221	0.86	301
	all	862	0.065	21.0	3.51	3026	0.86	745
Partitions								
12C-0sw: Frm wall, stucco ext, r-13 cav ins, 2"x4" wood frm, 16" o.c. stud		100	0.091	13.0	4.91	492	0.87	88
Windows								
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = green grass (0.23); 1.42 ft overhang (2.04 ft window ht, 1.67 ft sep.); 7 ft head ht	n	6	0.320	0	17.3	106	8.46	52
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (5.04 ft window ht, 1.33 ft sep.); 7 ft head ht	w	27	0.320	0	17.3	472	40.2	1098
	w	91	0.320	0	17.3	1568	40.2	3650
	all	118	0.320	0	17.3	2039	40.2	4748
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (5.04 ft window ht, 6 ft sep.); 7 ft head ht	e	27	0.320	0	17.3	472	40.2	1098
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = green grass (0.23); 1.42 ft overhang (4.04 ft window ht, 1.67 ft sep.); 7 ft head ht	s	19	0.320	0	17.3	332	13.6	261
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (4.04 ft window ht, 1.33 ft sep.); 7 ft head ht	w	20	0.320	0	17.3	349	40.2	813
Doors								
11D0: Door, wd sc type	n	21	0.390	0	21.1	449	9.55	204
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh		1500	0.034	28.0	1.84	2754	2.31	3467



Floors

19C-19cscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, r-2 ext ins, r-19 cav ins, tight cowl ovr, r-11 wall insul

4 0.049 30.0 0.92 3 0.22 1





Component Constructions

AHU 01

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

Construction descriptions	Or	Area ft ²	U-value Btuh/ft ² ·°F	Insul R ft ² ·F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud	n	139	0.065	21.0	3.51	488	0.86	120
	e	56	0.065	21.0	3.51	195	0.86	48
	s	107	0.065	21.0	3.51	374	0.86	92
	w	274	0.065	21.0	3.51	963	0.86	237
	all	575	0.065	21.0	3.51	2020	0.86	497
Partitions								
12C-0sw: Frm wall, stucco ext, r-13 cav ins, 2"x4" wood frm, 16" o.c. stud		263	0.091	13.0	4.91	1292	0.87	230
Windows								
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = green grass (0.23); 7 ft head ht	n	18	0.320	0	17.3	317	8.46	155
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 7 ft head ht	w	188	0.320	0	17.3	3243	40.2	7550
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (4 ft window ht, 2.75 ft sep.); 7 ft head ht	e	12	0.320	0	17.3	207	40.2	483
Doors								
11D0: Door, wd sc type	s	24	0.390	0	21.1	505	9.55	229
	w	24	0.390	0	21.1	505	9.55	229
	n	21	0.390	0	21.1	435	9.55	197
	all	69	0.390	0	21.1	1446	9.55	656
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh		80	0.034	28.0	1.84	147	2.31	186
16B-30ad: Attic ceiling, asphalt shingles roof mat, r-31 roof ins, r-30 ceil ins		20	0.032	30.0	1.73	35	1.54	31
Floors								
19C-19cscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, r-2 ext ins, r-19 cav ins, tight crwl ovr, r-11 wall insul		14	0.049	30.0	0.92	13	0.22	3



21A-32t: Bg floor, heavy dry or light damp soil, 8' depth

1070

0.020

0

1.08

1155

0

0





Component Constructions (Unconditioned) Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation: 85 ft		Design TD (°F)		54	13
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.0	33.7
Outdoor:	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method	Simplified	
Daily range (°F)	-	20 (M)	Construction quality	Semi-loose	
Wet bulb (°F)	-	73	Fireplaces	1 (Semi-loose)	
Wind speed (mph)	15.0	7.5			

Construction descriptions

	Or	Area ft ²	U-value Btuh/ft ² -°F	Insul R ft ² -°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud								
	e	59	0.065	21.0	0	0	0	0
	s	106	0.065	21.0	0	0	0	0
	w	130	0.065	21.0	0	0	0	0
	all	295	0.065	21.0	0	0	0	0
Partitions								
(none)								
Windows								
Window: Window, 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 7 ft head ht								
	w	50	0.320	0	0	0	0	0
Doors								
11D0: Door, wd sc type								
	s	56	0.390	0	0	0	0	0
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh								
		239	0.034	28.0	0	0	0	0
Floors								
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth								
		263	0.020	0	0	0	0	0





Component Constructions

AHU 02

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

Construction descriptions	Or	Area ft ²	U-value Btuh/ft ² ·°F	Insul R ft ² ·°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud	n	195	0.065	21.0	3.51	683	0.86	168
	e	273	0.065	21.0	3.51	957	0.86	236
	s	153	0.065	21.0	3.51	536	0.86	132
	all	620	0.065	21.0	3.51	2176	0.86	536
Partitions								
(none)								
Windows								
Window: Window, 50% blinds 45°, medium; 50% outdoor insect screen; foreground = green grass (0.23); 7 ft head ht	n	18	0.320	0	17.3	317	8.46	155
	s	58	0.320	0	17.3	1008	16.7	975
	all	77	0.320	0	17.3	1325	14.7	1130
Window: Window, 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 7 ft head ht	n	17	0.320	0	17.3	287	8.46	141
Window: Window, 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (4 ft window ht, 2.42 ft sep.); 7 ft head ht	e	10	0.320	0	17.3	173	40.2	402
Window: Window, 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (5 ft window ht, 2.42 ft sep.); 7 ft head ht	e	58	0.320	0	17.3	1008	40.2	2347
Window: Window, 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (6.04 ft window ht, 2.42 ft sep.); 7 ft head ht	e	17	0.320	0	17.3	287	40.2	668
	e	65	0.320	0	17.3	1131	40.2	2632
	all	82	0.320	0	17.3	1418	40.2	3301
Doors								
11D0: Door, wd sc type	s	45	0.390	0	21.1	955	9.55	433
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh		511	0.034	28.0	1.84	939	2.31	1182
Floors								
19C-19cscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, r-2 ext ins, r-19 cav ins, tight cowl ovr, r-11 wall insul		10	0.049	30.0	0.92	9	0.22	2



21A-32t: Bg floor, heavy dry or light damp soil, 8' depth

572

0.020

0

1.08

618

0

0





Component Constructions

Mini Split

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft ²	U-value Btuh/ft ² -°F	Insul R ft ² -°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud	n	151	0.065	21.0	3.51	530	0.86	130
	e	117	0.065	21.0	3.51	411	0.86	101
	all	268	0.065	21.0	3.51	941	0.86	232
Partitions								
(none)								
Windows								
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = green grass (0.23); 7 ft head ht	n	11	0.320	0	17.3	191	8.46	94
Doors								
(none)								
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh		24	0.034	28.0	1.84	44	2.31	55
Floors								
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth		235	0.020	0	1.08	253	0	0





Component Constructions

AHU 03

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

Construction descriptions	Or	Area ft²	U-value Btuh/ft²·°F	Insul R ft²·°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud	n	127	0.065	21.0	3.51	445	0.86	110
	e	358	0.065	21.0	3.51	1257	0.86	310
	s	194	0.065	21.0	3.51	679	0.86	167
	all	679	0.065	21.0	3.51	2382	0.86	587
Partitions								
(none)								
Windows								
Window: Window, 50% blinds 45°, medium; 50% outdoor insect screen; foreground = green grass (0.23); 1.42 ft overhang (4.04 ft window ht, 1 ft sep.); 7 ft head ht	n	8	0.320	0	17.3	140	8.46	68
Window: Window, 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (2.04 ft window ht, 1.33 ft sep.); 7 ft head ht	e	8	0.320	0	17.3	141	40.2	328
Window: Window, 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (5 ft window ht, 1.33 ft sep.); 7 ft head ht	e	23	0.320	0	17.3	403	40.2	939
Window: Window, 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (5.04 ft window ht, 1.33 ft sep.); 7 ft head ht	e	27	0.320	0	17.3	472	40.2	1098
Doors								
11D0: Door, wd sc type	e	24	0.390	0	21.1	505	9.55	229
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh		820	0.034	28.0	1.84	1506	2.31	1896
Floors								
(none)								





Component Constructions

AHU 05

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft ²	U-value Btuh/ft ² ·°F	Insul R ft ² ·°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud								
	n	278	0.065	21.0	3.51	976	0.86	240
	e	436	0.065	21.0	3.51	1531	0.86	377
	s	282	0.065	21.0	3.51	990	0.86	244
	w	454	0.065	21.0	3.51	1593	0.86	392
	all	1450	0.065	21.0	3.51	5090	0.86	1254

Partitions

12C-0sw: Frm wall, stucco ext, r-13 cav ins, 2"x4" wood frm, 16" o.c. stud		225	0.091	13.0	4.91	1106	0.87	197
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Windows

Window: Window, 50% blinds 45°, medium; 50% outdoor insect screen; foreground = green grass (0.23); 1.42 ft overhang (5 ft window ht, 1.67 ft sep.); 7 ft head ht	n	23	0.320	0	17.3	403	8.46	198
Window: Window, 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (5.04 ft window ht, 1.67 ft sep.); 7 ft head ht	e	27	0.320	0	17.3	472	40.2	1098
Window: Window, 50% blinds 45°, medium; 50% outdoor insect screen; foreground = green grass (0.23); 1.42 ft overhang (4.04 ft window ht, 1.67 ft sep.); 7 ft head ht	s	20	0.320	0	17.3	337	13.6	265

Doors

11D0: Door, wd sc type	w	19	0.390	0	21.1	393	9.55	178
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Ceilings

16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh		23	0.034	28.0	1.84	43	2.31	54
16B-30ad: Attic ceiling, asphalt shingles roof mat, r-31 roof ins, r-30 ceil ins		5	0.032	30.0	1.73	9	1.54	8

Floors

19C-19cscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, r-2 ext ins, r-19 cav ins, tight crwl ovr, r-11 wall insul		48	0.049	30.0	0.92	44	0.22	11
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth		27	0.020	0	1.08	29	0	0







Component Constructions

AHU 06

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft ²	U-value Btuh/ft ² -°F	Insul R ft ² -°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud								
	n	232	0.065	21.0	3.51	813	0.86	200
	e	475	0.065	21.0	3.51	1665	0.86	410
	s	323	0.065	21.0	3.51	1132	0.86	279
	w	122	0.065	21.0	3.51	426	0.86	105
	all	1150	0.065	21.0	3.51	4036	0.86	994
Partitions								
12C-0sw: Frm wall, stucco ext, r-13 cav ins, 2"x4" wood frm, 16" o.c. stud								
		126	0.091	13.0	4.91	619	0.87	110
Windows								
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = green grass (0.23); 7 ft head ht								
	s	12	0.320	0	17.3	207	16.7	200
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 7 ft head ht								
	n	16	0.320	0	17.3	276	8.46	135
	e	16	0.320	0	17.3	276	40.2	644
	all	32	0.320	0	17.3	553	24.3	779
Doors								
11D0: Door, wd sc type								
	s	21	0.390	0	21.1	442	9.55	201
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh								
		620	0.034	28.0	1.84	1139	2.31	1434
16B-30ad: Attic ceiling, asphalt shingles roof mat, r-31 roof ins, r-30 ceil ins								
		24	0.032	30.0	1.73	41	1.54	36
Floors								
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth								
		1367	0.020	0	1.08	1476	0	0





Component Constructions

AHU 07

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation: 85 ft		Design TD (°F)		54	13
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.0	33.7
Outdoor:	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method	Simplified	
Daily range (°F)	-	20 (M)	Construction quality	Semi-loose	
Wet bulb (°F)	-	73	Fireplaces	1 (Semi-loose)	
Wind speed (mph)	15.0	7.5			

Construction descriptions

	Or	Area ft²	U-value Btuh/ft²·°F	Insul R ft²·°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud								
	n	270	0.065	21.0	3.51	946	0.86	233
	e	101	0.065	21.0	3.51	355	0.86	87
	s	194	0.065	21.0	3.51	679	0.86	167
	w	486	0.065	21.0	3.51	1706	0.86	420
	all	1050	0.065	21.0	3.51	3685	0.86	908
Partitions								
12C-0sw: Frm wall, stucco ext, r-13 cav ins, 2"x4" wood frm, 16" o.c. stud								
		126	0.091	13.0	4.91	619	0.87	110
Windows								
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = green grass (0.23); 7 ft head ht								
	n	32	0.320	0	17.3	553	8.46	271
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 7 ft head ht								
	e	16	0.320	0	17.3	276	40.2	644
Doors								
(none)								
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh								
		1225	0.034	28.0	1.84	2248	2.31	2831
Floors								
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth								
		1507	0.020	0	1.08	1627	0	0





Component Constructions

Bedroom 01

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft²	U-value Btuh/ft²·°F	Insul R ft²·°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud								
	n	108	0.065	21.0	3.51	379	0.86	93
	e	144	0.065	21.0	3.51	504	0.86	124
	s	108	0.065	21.0	3.51	379	0.86	93
	all	360	0.065	21.0	3.51	1263	0.86	311
Partitions								
(none)								
Windows								
Window: Window, 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (5.04 ft window ht, 1.67 ft sep.); 7 ft head ht								
	e	27	0.320	0	17.3	472	40.2	1098
Doors								
(none)								
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh								
		1	0.034	28.0	1.84	2	2.31	3
Floors								
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth								
		1	0.020	0	1.08	1	0	0





Component Constructions
Bath 1
Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft²	U-value Btuh/ft²-F	Insul R ft²-F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
Walls 12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud	s	45	0.065	21.0	3.51	158	0.86	39
Partitions (none)								
Windows (none)								
Doors (none)								
Ceilings (none)								
Floors (none)								





Component Constructions
Suite 1
Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method	Simplified	
Daily range (°F)	-	20 (M)	Construction quality	Semi-loose	
Wet bulb (°F)	-	73	Fireplaces	1 (Semi-loose)	
Wind speed (mph)	15.0	7.5			

Construction descriptions

	Or	Area ft²	U-value Btuh/ft²-F	Insul R ft²-F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
Walls 12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud	n	45	0.065	21.0	3.51	158	0.86	39
Partitions (none)								
Windows (none)								
Doors (none)								
Ceilings (none)								
Floors (none)								





Component Constructions

Hallway 3

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft²	U-value Btuh/ft²·°F	Insul R ft²·°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
Walls								
(none)								
Partitions								
12C-0sw: Frm wall, stucco ext, r-13 cav ins, 2"x4" wood frm, 16" o.c. stud		45	0.091	13.0	4.91	221	0.87	39
Windows								
(none)								
Doors								
(none)								
Ceilings								
(none)								
Floors								
19C-19cscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, r-2 ext ins, r-19 cav ins, tight crwl ovr, r-11 wall insul		3	0.049	30.0	0.92	3	0.22	1





Component Constructions

Bath 2

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft²	U-value Btuh/ft²-F	Insul R ft²-F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
Walls								
12F-0sw: Fm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud								
	s	14	0.065	21.0	3.51	47	0.86	12
	w	86	0.065	21.0	3.51	300	0.86	74
	all	99	0.065	21.0	3.51	347	0.86	86
Partitions								
12C-0sw: Fm wall, stucco ext, r-13 cav ins, 2"x4" wood frm, 16" o.c. stud								
		50	0.091	13.0	4.91	243	0.87	43
Windows (none)								
Doors (none)								
Ceilings (none)								
Floors								
19C-19cscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, r-2 ext ins, r-19 cav ins, tight cowl ovr, r-11 wall insul								
		3	0.049	30.0	0.92	3	0.22	1





Component Constructions

Bedroom 02

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

Construction descriptions	Or	Area ft ²	U-value Btuh/ft ² -°F	Insul R ft ² -°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud	n	94	0.065	21.0	3.51	329	0.86	81
	e	122	0.065	21.0	3.51	426	0.86	105
	w	117	0.065	21.0	3.51	411	0.86	101
	all	332	0.065	21.0	3.51	1166	0.86	287
Partitions								
(none)								
Windows								
Window: Window, 50% blinds 45°, medium; 50% outdoor insect screen; foreground = green grass (0.23); 1.42 ft overhang (5 ft window ht, 1.67 ft sep.); 7 ft head ht	n	23	0.320	0	17.3	403	8.46	198
Doors								
(none)								
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh		2	0.034	28.0	1.84	4	2.31	5
Floors								
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth		6	0.020	0	1.08	6	0	0





Component Constructions

Passover Kitchen

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

Construction descriptions	Or	Area ft ²	U-value Btuh/ft ² -°F	Insul R ft ² -F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud	n	59	0.065	21.0	3.51	205	0.86	51
	e	95	0.065	21.0	3.51	333	0.86	82
	all	153	0.065	21.0	3.51	538	0.86	133
Partitions (none)								
Windows								
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (4 ft window ht, 2.42 ft sep.); 7 ft head ht	e	10	0.320	0	17.3	173	40.2	402
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (6.04 ft window ht, 2.42 ft sep.); 7 ft head ht	e	17	0.320	0	17.3	287	40.2	668
Doors (none)								
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh		81	0.034	28.0	1.84	149	2.31	187
Floors								
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth		77	0.020	0	1.08	83	0	0





Component Constructions Study

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft ²	U-value Btuh/ft ² ·°F	Insul R ft ² ·°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud	n	94	0.065	21.0	3.51	330	0.86	81
Partitions								
(none)								
Windows								
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = green grass (0.23); 7 ft head ht	n	18	0.320	0	17.3	317	8.46	155
Doors								
(none)								
Ceilings								
(none)								
Floors								
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth		132	0.020	0	1.08	143	0	0





Component Constructions
Bath/Suite
Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft²	U-value Btuh/ft²·°F	Insul R ft²·°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
Walls 12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud	n	50	0.065	21.0	3.51	174	0.86	43
Partitions (none)								
Windows (none)								
Doors (none)								
Ceilings (none)								
Floors 21A-32t: Bg floor, heavy dry or light damp soil, 8' depth		96	0.020	0	1.08	104	0	0





Component Constructions

Living Room

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation: 85 ft		Design TD (°F)		54	13
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.0	33.7
Outdoor:	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method	Simplified	
Daily range (°F)	-	20 (M)	Construction quality	Semi-loose	
Wet bulb (°F)	-	73	Fireplaces	1 (Semi-loose)	
Wind speed (mph)	15.0	7.5			

Construction descriptions

	Or	Area ft ²	U-value Btuh/ft ² -°F	Insul R ft ² -°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud	n	139	0.065	21.0	3.51	488	0.86	120
	w	81	0.065	21.0	3.51	283	0.86	70
	all	220	0.065	21.0	3.51	771	0.86	190
Partitions (none)								
Windows								
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = green grass (0.23); 7 ft head ht	n	18	0.320	0	17.3	317	8.46	155
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 7 ft head ht	w	54	0.320	0	17.3	939	40.2	2187
Doors (none)								
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh		1	0.034	28.0	1.84	1	2.31	1
Floors								
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth		248	0.020	0	1.08	268	0	0





Component Constructions

Foyer/Vestibule

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft ²	U-value Btuh/ft ² ·°F	Insul R ft ² ·°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud	w	71	0.065	21.0	3.51	247	0.86	61
Partitions								
(none)								
Windows								
(none)								
Doors								
11D0: Door, wd sc type	w	24	0.390	0	21.1	505	9.55	229
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh		16	0.034	28.0	1.84	28	2.31	36
Floors								
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth		227	0.020	0	1.08	245	0	0





Component Constructions

Garage

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft ²	U-value Btuh/ft ² -°F	Insul R ft ² -°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud								
	e	59	0.065	21.0	0	0	0	0
	s	106	0.065	21.0	0	0	0	0
	w	130	0.065	21.0	0	0	0	0
	all	295	0.065	21.0	0	0	0	0
Partitions								
(none)								
Windows								
Window: Window, 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 7 ft head ht								
	w	50	0.320	0	0	0	0	0
Doors								
11D0: Door, wd sc type								
	s	56	0.390	0	0	0	0	0
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh								
		239	0.034	28.0	0	0	0	0
Floors								
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth								
		263	0.020	0	0	0	0	0





Component Constructions

Side Entry

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft ²	U-value Btuh/ft ² -°F	Insul R ft ² -°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud	e	56	0.065	21.0	3.51	195	0.86	48
	s	35	0.065	21.0	3.51	121	0.86	30
	all	90	0.065	21.0	3.51	316	0.86	78
Partitions								
12C-0sw: Frm wall, stucco ext, r-13 cav ins, 2"x4" wood frm, 16" o.c. stud		78	0.091	13.0	4.91	385	0.87	68
Windows								
Window: Window, 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (4 ft window ht, 2.75 ft sep.); 7 ft head ht	e	12	0.320	0	17.3	207	40.2	483
Doors								
11D0: Door, wd sc type	s	24	0.390	0	21.1	505	9.55	229
	n	21	0.390	0	21.1	435	9.55	197
	all	45	0.390	0	21.1	941	9.56	427
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh		56	0.034	28.0	1.84	103	2.31	130
Floors								
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth		16	0.020	0	1.08	18	0	0





Component Constructions

Family Room

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

Construction descriptions	Or	Area ft ²	U-value Btuh/ft ² -°F	Insul R ft ² -°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud	e	95	0.065	21.0	3.51	332	0.86	82
	s	108	0.065	21.0	3.51	380	0.86	94
	all	203	0.065	21.0	3.51	712	0.86	175
Partitions								
(none)								
Windows								
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = green grass (0.23); 7 ft head ht	s	58	0.320	0	17.3	1008	16.7	975
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (5 ft window ht, 2.42 ft sep.); 7 ft head ht	e	58	0.320	0	17.3	1008	40.2	2347
Doors								
(none)								
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh		224	0.034	28.0	1.84	411	2.31	518
Floors								
19C-19cscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, r-2 ext ins, r-19 cav ins, tight cowl ovr, r-11 wall insul		10	0.049	30.0	0.92	9	0.22	2
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth		239	0.020	0	1.08	258	0	0





Component Constructions

Kitchen/Dinette

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft²	U-value Btuh/ft²·°F	Insul R ft²·°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud	n	42	0.065	21.0	3.51	147	0.86	36
	e	83	0.065	21.0	3.51	292	0.86	72
	s	45	0.065	21.0	3.51	157	0.86	39
	all	170	0.065	21.0	3.51	595	0.86	147
Partitions								
(none)								
Windows								
Window: Window, 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 7 ft head ht	n	17	0.320	0	17.3	287	8.46	141
Window: Window, 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (6.04 ft window ht, 2.42 ft sep.); 7 ft head ht	e	65	0.320	0	17.3	1131	40.2	2632
Doors								
11D0: Door, wd sc type	s	45	0.390	0	21.1	955	9.55	433
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh		206	0.034	28.0	1.84	379	2.31	477
Floors								
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth		124	0.020	0	1.08	134	0	0





Component Constructions

Master Bath

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft²	U-value Btuh/ft²·°F	Insul R ft²·°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud								
	n	109	0.065	21.0	3.51	382	0.86	94
	e	100	0.065	21.0	3.51	350	0.86	86
	all	209	0.065	21.0	3.51	733	0.86	180
Partitions								
(none)								
Windows								
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = green grass (0.23); 1.42 ft overhang (4.04 ft window ht, 1 ft sep.); 7 ft head ht								
	n	8	0.320	0	17.3	140	8.46	68
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (2.04 ft window ht, 1.33 ft sep.); 7 ft head ht								
	e	8	0.320	0	17.3	141	40.2	328
Doors								
(none)								
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh								
		156	0.034	28.0	1.84	286	2.31	361
Floors								
(none)								





Component Constructions
Master Bedroom
Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft²	U-value Btuh/ft²·°F	Insul R ft²·°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud	e	160	0.065	21.0	3.51	560	0.86	138
	s	99	0.065	21.0	3.51	347	0.86	86
	all	259	0.065	21.0	3.51	908	0.86	224
Partitions								
(none)								
Windows								
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (5 ft window ht, 1.33 ft sep.); 7 ft head ht	e	23	0.320	0	17.3	403	40.2	939
Doors								
11D0: Door, wd sc type	e	24	0.390	0	21.1	505	9.55	229
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh		373	0.034	28.0	1.84	685	2.31	863
Floors								
(none)								





Component Constructions
Master W.I.C
Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft²	U-value Btuh/ft²·°F	Insul R ft²·°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud								
	n	18	0.065	21.0	3.51	63	0.86	16
	e	18	0.065	21.0	3.51	63	0.86	16
	all	36	0.065	21.0	3.51	126	0.86	31
Partitions (none)								
Windows (none)								
Doors (none)								
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh								
		108	0.034	28.0	1.84	198	2.31	249
Floors (none)								





Component Constructions

Bedroom 4

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

Construction descriptions	Or	Area ft ²	U-value Btuh/ft ² ·°F	Insul R ft ² ·°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud	n	126	0.065	21.0	3.51	442	0.86	109
	e	72	0.065	21.0	3.51	252	0.86	62
	all	198	0.065	21.0	3.51	694	0.86	171
Partitions								
(none)								
Windows								
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (5.04 ft window ht, 6 ft sep.); 7 ft head ht	e	27	0.320	0	17.3	472	40.2	1098
Doors								
(none)								
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh		154	0.034	28.0	1.84	283	2.31	356
Floors								
(none)								





Component Constructions

Bathroom 2

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft²	U-value Btuh/ft²-F	Insul R ft²-F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
Walls 12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud	n	43	0.065	21.0	3.51	152	0.86	38
Partitions (none)								
Windows Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = green grass (0.23); 1.42 ft overhang (2.04 ft window ht, 1.67 ft sep.); 7 ft head ht	n	6	0.320	0	17.3	106	8.46	52
Doors (none)								
Ceilings 16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh		61	0.034	28.0	1.84	111	2.31	140
Floors (none)								





Component Constructions

Bedroom 3

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft ²	U-value Btuh/ft ² ·°F	Insul R ft ² ·°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud								
	n	117	0.065	21.0	3.51	411	0.86	101
	w	90	0.065	21.0	3.51	315	0.86	77
	all	207	0.065	21.0	3.51	725	0.86	179
Partitions								
(none)								
Windows								
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (5.04 ft window ht, 1.33 ft sep.); 7 ft head ht								
	w	45	0.320	0	17.3	784	40.2	1825
Doors								
(none)								
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh								
		217	0.034	28.0	1.84	398	2.31	502
Floors								
(none)								





Component Constructions

Bedroom 2

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation: 85 ft		Design TD (°F)		54	13
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.0	33.7
Outdoor:	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method	Simplified	
Daily range (°F)	-	20 (M)	Construction quality	Semi-loose	
Wet bulb (°F)	-	73	Fireplaces	1 (Semi-loose)	
Wind speed (mph)	15.0	7.5			

Construction descriptions

	Or	Area ft²	U-value Btuh/ft²·°F	Insul R ft²·°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud								
	n	5	0.065	21.0	3.51	16	0.86	4
	s	5	0.065	21.0	3.51	16	0.86	4
	w	76	0.065	21.0	3.51	267	0.86	66
	all	85	0.065	21.0	3.51	299	0.86	74
Partitions								
(none)								
Windows								
Window: Window, 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (5.04 ft window ht, 1.33 ft sep.); 7 ft head ht								
	w	27	0.320	0	17.3	472	40.2	1098
Doors								
(none)								
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh								
		171	0.034	28.0	1.84	314	2.31	396
Floors								
(none)								





Component Constructions

Bedroom 1

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft ²	U-value Btuh/ft ² ·°F	Insul R ft ² ·°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud								
	s	27	0.065	21.0	3.51	95	0.86	23
	w	108	0.065	21.0	3.51	378	0.86	93
	all	135	0.065	21.0	3.51	473	0.86	116
Partitions								
(none)								
Windows								
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (5.04 ft window ht, 1.33 ft sep.); 7 ft head ht								
	w	45	0.320	0	17.3	784	40.2	1825
Doors								
(none)								
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh								
		210	0.034	28.0	1.84	386	2.31	486
Floors								
(none)								





Component Constructions
Bathroom
 Manual J Express

Job:
 Date: Feb 05, 2024
 By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft²	U-value Btuh/ft²·°F	Insul R ft²·°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
Walls								
(none)								
Partitions								
(none)								
Windows								
(none)								
Doors								
(none)								
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh		66	0.034	28.0	1.84	121	2.31	153
Floors								
(none)								





Component Constructions
Baby Room
 Manual J Express

Job:
 Date: Feb 05, 2024
 By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Simplified		
Wet bulb (°F)	-	73	Construction quality		
Wind speed (mph)	15.0	7.5	Fireplaces		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft ²	U-value Btuh/ft ² °F	Insul R ft ² °F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
(none)								
Partitions								
(none)								
Windows								
(none)								
Doors								
(none)								
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh		57	0.034	28.0	1.84	105	2.31	132
Floors								
(none)								





Component Constructions

Hallway 2

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

Construction descriptions	Or	Area ft²	U-value Btuh/ft²·°F	Insul R ft²·°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud	s	120	0.065	21.0	3.51	422	0.86	104
	w	74	0.065	21.0	3.51	261	0.86	64
	all	195	0.065	21.0	3.51	683	0.86	168
Partitions								
12C-0sw: Frm wall, stucco ext, r-13 cav ins, 2"x4" wood frm, 16" o.c. stud		100	0.091	13.0	4.91	492	0.87	88
Windows								
Window: Window, 50% blinds 45°, medium; 50% outdoor insect screen; foreground = green grass (0.23); 1.42 ft overhang (4.04 ft window ht, 1.67 ft sep.); 7 ft head ht	s	19	0.320	0	17.3	332	13.6	261
Window: Window, 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (4.04 ft window ht, 1.33 ft sep.); 7 ft head ht	w	20	0.320	0	17.3	349	40.2	813
Doors								
11D0: Door, wd sc type	n	21	0.390	0	21.1	449	9.55	204
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh		621	0.034	28.0	1.84	1140	2.31	1436
Floors								
19C-19cscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, r-2 ext ins, r-19 cav ins, tight crwl ovr, r-11 wall insul		4	0.049	30.0	0.92	3	0.22	1





Component Constructions
P.R
Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft²	U-value Btuh/ft²·°F	Insul R ft²·°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
Walls								
(none)								
Partitions								
12C-0sw: Frm wall, stucco ext, r-13 cav ins, 2"x4" wood frm, 16" o.c. stud		113	0.091	13.0	4.91	553	0.87	98
Windows								
(none)								
Doors								
(none)								
Ceilings								
16B-30ad: Attic ceiling, asphalt shingles roof mat, r-31 roof ins, r-30 ceil ins		20	0.032	30.0	1.73	35	1.54	31
Floors								
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth		38	0.020	0	1.08	40	0	0





Component Constructions

Hallway 1

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

Construction descriptions	Or	Area ft ²	U-value Btuh/ft ² -°F	Insul R ft ² -°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud	s	54	0.065	21.0	3.51	190	0.86	47
	w	38	0.065	21.0	3.51	135	0.86	33
	all	92	0.065	21.0	3.51	324	0.86	80
Partitions								
12C-0sw: Frm wall, stucco ext, r-13 cav ins, 2"x4" wood frm, 16" o.c. stud		72	0.091	13.0	4.91	354	0.87	63
Windows								
Window: Window, 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 7 ft head ht	w	61	0.320	0	17.3	1047	40.2	2438
Doors								
(none)								
Ceilings								
(none)								
Floors								
19C-19cscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, r-2 ext ins, r-19 cav ins, tight cwl ovr, r-11 wall insul		14	0.049	30.0	0.92	13	0.22	3
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth		206	0.020	0	1.08	222	0	0





Component Constructions

Laundry Room

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

Construction descriptions	Or	Area ft ²	U-value Btuh/ft ² ·°F	Insul R ft ² ·°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud	e	81	0.065	21.0	3.51	283	0.86	70
	s	95	0.065	21.0	3.51	332	0.86	82
	all	175	0.065	21.0	3.51	615	0.86	151
Partitions (none)								
Windows								
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 1.42 ft overhang (5.04 ft window ht, 1.33 ft sep.); 7 ft head ht	e	27	0.320	0	17.3	472	40.2	1098
Doors (none)								
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh		126	0.034	28.0	1.84	231	2.31	291
Floors (none)								





Component Constructions

Dining Room

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
		Heating	Cooling		
Dry bulb (°F)		16	88		
Daily range (°F)		-	20 (M)		
Wet bulb (°F)		-	73		
Wind speed (mph)		15.0	7.5		
		Infiltration:			
		Method		Simplified	
		Construction quality		Semi-loose	
		Fireplaces		1 (Semi-loose)	

Construction descriptions

	Or	Area ft ²	U-value Btuh/ft ² -°F	Insul R ft ² -°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud								
	s	18	0.065	21.0	3.51	63	0.86	16
	w	85	0.065	21.0	3.51	298	0.86	73
	all	103	0.065	21.0	3.51	361	0.86	89
Partitions								
(none)								
Windows								
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 7 ft head ht								
	w	73	0.320	0	17.3	1257	40.2	2925
Doors								
(none)								
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh								
		8	0.034	28.0	1.84	15	2.31	18
Floors								
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth								
		335	0.020	0	1.08	362	0	0





Component Constructions

Guest Room

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

Construction descriptions	Or	Area ft ²	U-value Btuh/ft ² -°F	Insul R ft ² -°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud	n	101	0.065	21.0	3.51	356	0.86	88
	e	117	0.065	21.0	3.51	411	0.86	101
	all	218	0.065	21.0	3.51	767	0.86	189
Partitions (none)								
Windows								
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = green grass (0.23); 7 ft head ht	n	11	0.320	0	17.3	191	8.46	94
Doors (none)								
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh		24	0.034	28.0	1.84	44	2.31	55
Floors								
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth		138	0.020	0	1.08	149	0	0





Component Constructions

Open Area

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft²	U-value Btuh/ft²·°F	Insul R ft²·°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud								
	n	32	0.065	21.0	3.51	111	0.86	27
	e	68	0.065	21.0	3.51	237	0.86	58
	s	18	0.065	21.0	3.51	63	0.86	16
	w	148	0.065	21.0	3.51	519	0.86	128
	all	265	0.065	21.0	3.51	930	0.86	229
Partitions								
12C-0sw: Frm wall, stucco ext, r-13 cav ins, 2"x4" wood frm, 16" o.c. stud								
		45	0.091	13.0	4.91	221	0.87	39
Windows								
(none)								
Doors								
11D0: Door, wd sc type								
	w	19	0.390	0	21.1	393	9.55	178
Ceilings								
(none)								
Floors								
19C-19cscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, r-2 ext ins, r-19 cav ins, tight cwl ovr, r-11 wall insul								
		42	0.049	30.0	0.92	39	0.22	9





Component Constructions

Storage

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft ²	U-value Btuh/ft ² -°F	Insul R ft ² -°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud	e	104	0.065	21.0	3.51	363	0.86	89
	s	97	0.065	21.0	3.51	342	0.86	84
	w	104	0.065	21.0	3.51	363	0.86	89
	all	304	0.065	21.0	3.51	1069	0.86	263
Partitions								
12C-0sw: Frm wall, stucco ext, r-13 cav ins, 2"x4" wood frm, 16" o.c. stud		86	0.091	13.0	4.91	420	0.87	75
Windows								
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = green grass (0.23); 1.42 ft overhang (4.04 ft window ht, 1.67 ft sep.); 7 ft head ht	s	20	0.320	0	17.3	337	13.6	265
Doors								
(none)								
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh		20	0.034	28.0	1.84	37	2.31	46
16B-30ad: Attic ceiling, asphalt shingles roof mat, r-31 roof ins, r-30 ceil ins		5	0.032	30.0	1.73	9	1.54	8
Floors								
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth		20	0.020	0	1.08	22	0	0





Component Constructions

Side Entry.

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft ²	U-value Btuh/ft ² -°F	Insul R ft ² -°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud								
	e	149	0.065	21.0	3.51	521	0.86	128
	s	51	0.065	21.0	3.51	179	0.86	44
	all	200	0.065	21.0	3.51	700	0.86	172
Partitions								
(none)								
Windows								
(none)								
Doors								
11D0: Door, wd sc type								
	s	21	0.390	0	21.1	442	9.55	201
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh								
		101	0.034	28.0	1.84	186	2.31	234
Floors								
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth								
		101	0.020	0	1.08	109	0	0





Component Constructions

Guest

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft ²	U-value Btuh/ft ² -°F	Insul R ft ² -°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh	
Walls									
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud	s	83	0.065	21.0	3.51	290	0.86	71	
Partitions									
(none)									
Windows									
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = green grass (0.23); 7 ft head ht	s	12	0.320	0	17.3	207	16.7	200	
Doors									
(none)									
Ceilings									
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh		91	0.034	28.0	1.84	166	2.31	209	
16B-30ad: Attic ceiling, asphalt shingles roof mat, r-31 roof ins, r-30 ceil ins		10	0.032	30.0	1.73	17	1.54	15	
Floors									
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth		139	0.020	0	1.08	150	0	0	





Component Constructions

Guest Bed

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft ²	U-value Btuh/ft ² ·°F	Insul R ft ² ·°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud								
	e	68	0.065	21.0	3.51	237	0.86	58
	s	99	0.065	21.0	3.51	347	0.86	86
	w	95	0.065	21.0	3.51	332	0.86	82
	all	261	0.065	21.0	3.51	916	0.86	226
Partitions								
(none)								
Windows								
(none)								
Doors								
(none)								
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh								
		44	0.034	28.0	1.84	80	2.31	101
16B-30ad: Attic ceiling, asphalt shingles roof mat, r-31 roof ins, r-30 ceil ins								
		2	0.032	30.0	1.73	3	1.54	3
Floors								
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth								
		140	0.020	0	1.08	151	0	0





Component Constructions

Bedroom

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft ²	U-value Btuh/ft ² -°F	Insul R ft ² -°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud	n	117	0.065	21.0	3.51	411	0.86	101
	e	101	0.065	21.0	3.51	355	0.86	87
	all	218	0.065	21.0	3.51	765	0.86	188
Partitions								
(none)								
Windows								
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 7 ft head ht	e	16	0.320	0	17.3	276	40.2	644
Doors								
(none)								
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh		157	0.034	28.0	1.84	287	2.31	362
Floors								
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth		180	0.020	0	1.08	195	0	0





Component Constructions
Laundry/Linen
Manual J Express

Job:
 Date: Feb 05, 2024
 By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft²	U-value Btuh/ft²·°F	Insul R ft²·°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
Walls								
(none)								
Partitions								
12C-0sw: Frm wall, stucco ext, r-13 cav ins, 2"x4" wood frm, 16" o.c. stud		54	0.091	13.0	4.91	265	0.87	47
Windows								
(none)								
Doors								
(none)								
Ceilings								
(none)								
Floors								
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth		125	0.020	0	1.08	135	0	0





Component Constructions

Bathroom 1

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
		Heating	Cooling		
Dry bulb (°F)		16	88		
Daily range (°F)		-	20 (M)		
Wet bulb (°F)		-	73		
Wind speed (mph)		15.0	7.5		
		Infiltration:			
		Method		Simplified	
		Construction quality		Semi-loose	
		Fireplaces		1 (Semi-loose)	

Construction descriptions

	Or	Area ft ²	U-value Btuh/ft ² °F	Insul R ft ² ·F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
(none)								
Partitions								
(none)								
Windows								
(none)								
Doors								
(none)								
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh		25	0.034	28.0	1.84	46	2.31	58
Floors								
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth		65	0.020	0	1.08	70	0	0





Component Constructions

Mast Bath

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft ²	U-value Btuh/ft ² -°F	Insul R ft ² -°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud								
	n	72	0.065	21.0	3.51	253	0.86	62
	e	59	0.065	21.0	3.51	205	0.86	51
	all	131	0.065	21.0	3.51	458	0.86	113
Partitions								
(none)								
Windows								
(none)								
Doors								
(none)								
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh								
		52	0.034	28.0	1.84	95	2.31	120
Floors								
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth								
		52	0.020	0	1.08	56	0	0





Component Constructions

Mast Bed/WIC

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft ²	U-value Btuh/ft ² -°F	Insul R ft ² -°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud	n	101	0.065	21.0	3.51	355	0.86	87
	e	63	0.065	21.0	3.51	221	0.86	54
	all	164	0.065	21.0	3.51	576	0.86	142
Partitions								
(none)								
Windows								
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 7 ft head ht	n	16	0.320	0	17.3	276	8.46	135
Doors								
(none)								
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh		157	0.034	28.0	1.84	288	2.31	363
Floors								
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth		265	0.020	0	1.08	286	0	0





Component Constructions

Kitchen

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method	Simplified	
Daily range (°F)	-	20 (M)	Construction quality	Semi-loose	
Wet bulb (°F)	-	73	Fireplaces	1 (Semi-loose)	
Wind speed (mph)	15.0	7.5			

Construction descriptions

	Or	Area ft ²	U-value Btuh/ft ² -°F	Insul R ft ² -°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud								
	n	59	0.065	21.0	3.51	205	0.86	51
	e	133	0.065	21.0	3.51	465	0.86	115
	s	90	0.065	21.0	3.51	316	0.86	78
	all	281	0.065	21.0	3.51	986	0.86	243
Partitions								
(none)								
Windows								
Window: Window, 50% blinds 45°, medium; 50% outdoor insect screen; foreground = new concrete (0.32); 7 ft head ht								
	e	16	0.320	0	17.3	276	40.2	644
Doors								
(none)								
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh								
		124	0.034	28.0	1.84	227	2.31	286
Floors								
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth								
		165	0.020	0	1.08	178	0	0





Component Constructions

Main Living

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft²	U-value Btuh/ft²·°F	Insul R ft²·°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh	
Walls									
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud									
	e	5	0.065	21.0	3.51	16	0.86	4	
Partitions									
12C-0sw: Frm wall, stucco ext, r-13 cav ins, 2"x4" wood frm, 16" o.c. stud									
		72	0.091	13.0	4.91	354	0.87	63	
Windows									
(none)									
Doors									
(none)									
Ceilings									
(none)									
Floors									
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth									
		340	0.020	0	1.08	367	0	0	





Component Constructions

Toy CL

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft ²	U-value Btuh/ft ² ·°F	Insul R ft ² ·°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
(none)								
Partitions								
12C-0sw: Frm wall, stucco ext, r-13 cav ins, 2"x4" wood frm, 16" o.c. stud		32	0.091	13.0	4.91	155	0.87	28
Windows								
(none)								
Doors								
(none)								
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh		15	0.034	28.0	1.84	28	2.31	35
Floors								
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth		65	0.020	0	1.08	70	0	0





Component Constructions

St/Stair

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft ²	U-value Btuh/ft ² -°F	Insul R ft ² -°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud								
	s	158	0.065	21.0	3.51	553	0.86	136
	w	95	0.065	21.0	3.51	332	0.86	82
	all	252	0.065	21.0	3.51	885	0.86	218
Partitions								
(none)								
Windows								
(none)								
Doors								
(none)								
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh								
		186	0.034	28.0	1.84	342	2.31	431
Floors								
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth								
		201	0.020	0	1.08	217	0	0





Component Constructions

Powder

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft ²	U-value Btuh/ft ² ·°F	Insul R ft ² ·°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
(none)								
Partitions								
(none)								
Windows								
(none)								
Doors								
(none)								
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh		25	0.034	28.0	1.84	46	2.31	58
Floors								
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth		33	0.020	0	1.08	35	0	0





Component Constructions

Play Room

Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft ²	U-value Btuh/ft ² ·°F	Insul R ft ² ·°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud								
	n	153	0.065	21.0	3.51	535	0.86	132
	s	36	0.065	21.0	3.51	126	0.86	31
	w	392	0.065	21.0	3.51	1374	0.86	338
	all	580	0.065	21.0	3.51	2036	0.86	501
Partitions								
12C-0sw: Frm wall, stucco ext, r-13 cav ins, 2"x4" wood frm, 16" o.c. stud								
		41	0.091	13.0	4.91	199	0.87	35
Windows								
Window: Window; 50% blinds 45°, medium; 50% outdoor insect screen; foreground = green grass (0.23); 7 ft head ht								
	n	32	0.320	0	17.3	553	8.46	271
Doors								
(none)								
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh								
		817	0.034	28.0	1.84	1500	2.31	1888
Floors								
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth								
		837	0.020	0	1.08	904	0	0





Component Constructions
Hall/G-Suite
Manual J Express

Job:
Date: Feb 05, 2024
By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft²	U-value Btuh/ft²·°F	Insul R ft²·°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
Walls								
(none)								
Partitions								
12C-0sw: Frm wall, stucco ext, r-13 cav ins, 2"x4" wood frm, 16" o.c. stud		54	0.091	13.0	4.91	265	0.87	47
Windows								
(none)								
Doors								
(none)								
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh		41	0.034	28.0	1.84	74	2.31	94
16B-30ad: Attic ceiling, asphalt shingles roof mat, r-31 roof ins, r-30 ceil ins		3	0.032	30.0	1.73	5	1.54	5
Floors								
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth		117	0.020	0	1.08	126	0	0





Component Constructions
Guest Bath
 Manual J Express

Job:
 Date: Feb 05, 2024
 By:

2 Grant Ave, Lakewood, NJ 08701 Phone: 732-731-9836 Email: manualjexpress@gmail.com

Project Information

For: Manual J Express

Design Conditions

Location:		Indoor:		Heating	Cooling
Belmar-Farmingdale, NJ, US		Indoor temperature (°F)		70	75
Elevation:	85 ft	Design TD (°F)		54	13
Latitude:	40°N	Relative humidity (%)		50	50
Outdoor:		Moisture difference (gr/lb)		45.0	33.7
	Heating	Cooling	Infiltration:		
Dry bulb (°F)	16	88	Method		
Daily range (°F)	-	20 (M)	Construction quality		
Wet bulb (°F)	-	73	Fireplaces		
Wind speed (mph)	15.0	7.5	Simplified		
			Semi-loose		
			1 (Semi-loose)		

Construction descriptions

	Or	Area ft²	U-value Btuh/ft²·°F	Insul R ft²·°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
Walls								
12F-0sw: Frm wall, vnl ext, 5/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud	w	27	0.065	21.0	3.51	95	0.86	23
Partitions								
(none)								
Windows								
(none)								
Doors								
(none)								
Ceilings								
16A-28ad: Attic ceiling, asphalt shingles roof mat, r-28 ceil ins, 1/2" gypsum board int fnsh		12	0.034	28.0	1.84	22	2.31	27
16B-30ad: Attic ceiling, asphalt shingles roof mat, r-31 roof ins, r-30 ceil ins		9	0.032	30.0	1.73	15	1.54	13
Floors								
21A-32t: Bg floor, heavy dry or light damp soil, 8' depth		48	0.020	0	1.08	52	0	0

