

18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
P																	
N																	
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### UNIT HEATER SCHEDULE

TAG	LOCATION	CFM	E.A.T. DEG F	L.A.T. DEG F	CAPACITY KW	CAPACITY BTU/HR MIN	MOTOR HP/VOLT/PHASE	MANUFACTURER AND MODEL NUMBER	NOTES
EWH-1	1001 VESTIBULE	245	65	129	5.0	17,065	277/1	MARKEL G3425T	1
EWH-2	1712 STAIRS	245	65	116	4.0	13,652	277/1	MARKEL G3424T	1
EWH-3	1828 STAIRS	245	65	116	4.0	13,652	277/1	MARKEL G3424T	1
EWH-4	1311 PLUMBING	70	65	110	1.0	3410	120/1	MARKEL E4410TRP	1
EWH-5	1319 ELECTRICAL	70	65	133	1.5	5119	120/1	MARKEL E4415TRP	1

**NOTES:**  
1. PROVIDE WITH DISCONNECT, SURFACE MOUNT FRAME, INTEGRAL TAMPER PROOF THERMOSTAT AND THERMAL OVERLOAD.

### SPLIT SYSTEM AIR HANDLER / HEAT PUMP SCHEDULE

AIR HANDLER										HEAT PUMP										NOTES					
TAG	CFM	OA CFM	EXT. S.P. (°W.C.)	DRIVE	ELEC HEAT KW	STAGE	ELECTRICAL VOLTAGE/PHASE	FAN WATTS	WEIGHT (LBS)	MANUFACTURER MODEL NUMBER	TAG	TOTAL CAP (MBH)	SENS CAP (MBH)	EDB	EWB	AMBI ENT	SEER	HEATING CAP @77 (MBH)	HSPF	ELECTRICAL VOLTAGE/PHASE	MCA	MOP	WEIGHT (LBS)	MANUFACTURER MODEL NUMBER	NOTES
SS-1	820	70	0.5	DIRECT	5.77	1	208 / 1	145	117	TRANE TEMPA0824H21	HP-1	23.1	18.3	76.6	64.1	95	16.0	22.0	9.0	208 / 1	14	25	174	TRANE 4TWR6024H1	ALL

**NOTES:**  
1. PROVIDE WITH UNIT MOUNTED DISCONNECTS AT BOTH AIR HANDLING UNIT AND CONDENSING UNIT. OUTDOOR UNIT TO BE NEMA 3R TYPE.  
2. PROVIDE WITH MOTORIZED DAMPER IN OUTSIDE AIR INLET. INTERLOCK DAMPER WITH AHU. DAMPER TO CLOSE WHEN UNIT IS NOT IN OPERATION.  
3. PROVIDE WITH A WATER DETECTING DEVICE IN THE UNIT DRAIN PAN CONFORMING TO NC MECHANICAL CODE 307.2.2, NOTE 4.  
4. PROVIDE ANTI-SHORT CYCLE TIMER.  
5. PROVIDE 7 DAY PROGRAMMABLE THERMOSTAT WITH DIGITAL DISPLAY.

### PACKAGED DX / GAS ROOF TOP UNIT SCHEDULE

TAG	LOCATION	CFM	OUTSIDE AIR	EXT. S.P. (°W.C.)	TOTAL (MBH)	SENSIBLE (MBH)	EAT-DB (F)	EAT-WB (F)	AMBIENT TEMP (F)	HOT GAS REHEAT CAPACITY (MBH)	EAT (F)	LAT (F)	TYPE	INPUT (BTUH)	OUTPUT (BTUH)	CONTROL	VOLTAGE/PHASE	FLA	MCA	MOP	WEIGHT (LBS)	MANUFACTURER AND MODEL NUMBER	NOTES	
RTU-11	KITCHEN ROOF	1550	SEE BELOW		1.0	88.9	51	85	72	95	65	54	93	GAS	100	80	MODULATING	460/3	22.7	25.9	35	1963	TRANE HORIZON OAB/G	ALL

**NOTES:**  
1. PROVIDE WITH ROOF CURB.  
2. PROVIDE WITH UNIT MOUNTED DISCONNECT.  
3. PROVIDE WITH 100% ENTHALPY BASED ECONOMIZER WITH MODULATING POWERED EXHAUST, AND MODULATING O/A/R DAMPER CONTROL.  
4. PROVIDE WITH WATER DETECTING DEVICE IN DRAIN PAN TO SHUT UNIT DOWN UPON HIGH CONDENSATE LEVEL.  
5. PROVIDE INDIRECT FIRED, MODULATING NATURAL GAS HEAT.  
6. PROVIDE VFD FOR SUPPLY FAN FOR BALANCING. UNIT WILL OPERATE CONSTANT VOLUME.  
7. PROVIDE MODULATING COOLING CAPACITY WITH EITHER VARIABLE SPEED COMPRESSOR(S) OR DIGITAL SCROLL COMPRESSOR(S).  
8. PROVIDE BACKNET INTERFACE WITH SPACE CONTROL AND ROOM SENSOR.  
9. PROVIDE MODULATING HOT GAS REHEAT.  
10. PROVIDE RETURN ROOM PRESSURE CONTROL.  
11. PROVIDE AIRFLOW MONITORING FOR OUTSIDE AND EXHAUST AIRFLOWS.  
12. ACCEPTABLE EQUALS ARE TRANE, AACH.

**OUTSIDE AIR:**  
1. OCCUPIED, NEITHER HOOD OPERATING: 210 CFM OUTSIDE AIR  
2. OCCUPIED, GREASE HOODS ON: 676 CFM OUTSIDE AIR

### PACKAGED ROOF TOP UNIT SCHEDULE

TAG	LOCATION	CFM	MINIMUM OUTSIDE AIR	EXT. S.P. (°W.C.)	TOTAL (MBH)	SENSIBLE (MBH)	EAT-DB (F)	EAT-WB (F)	AMBIENT TEMP (F)	EFFICIENCY @ AHR1	CAPACITY (MBH)	T RISE (°F)	EAT (°F)	TYPE	INPUT (BTUH)	OUTPUT (BTUH)	EFFICIENCY	VOLTAGE/PHASE	MCA	MOP	WEIGHT (LBS)	MANUFACTURER AND MODEL NUMBER	NOTES	
RTU-1	AREA-A ROOF	1340	190	0.75	45.25	31.99	77.59	65.12	95	17.5 EER	27.58	19.0	54.40	GAS	60,000	49,000	81.6 %	460/3	13.7	20.0	976	TRANE PRECEDENT YHC047	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 19	
RTU-2	AREA-A ROOF	1630	200	0.75	46.86	34.02	77.25	64.78	95	17.5 EER	28.82	16.3	56.8	GAS	60,000	49,000	81.6 %	460/3	13.7	20.0	976	TRANE PRECEDENT YHC047	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 19	
RTU-3	AREA-A ROOF	1730	200	0.75	47.05	34.33	77.17	64.70	95	17.5 EER	29.05	15.8	57.2	GAS	60,000	49,000	81.6 %	460/3	13.7	20.0	976	TRANE PRECEDENT YHC047	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 19	
RTU-4	AREA-B ROOF	9700	4920	0.75	258.21	187.44	79.05	66.70	95	10.6 EER	185.16	19.0	57.6	GAS	250,000	200,000	80.0 %	460/3	54.0	70.0	3005	TRANE VOYAGER YHD000	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 21	
RTU-5	AREA-B ROOF	3460	620	0.75	110.08	83.23	78.58	67.60	95	12.4 EER	91.90	24.5	56.7	GAS	150,000	120,000	80.0 %	460/3	21.9	30.0	1608	TRANE PRECEDENT YHC067	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 19	
RTU-6	AREA-B ROOF	1800	440	0.75	57.52	40.66	78.52	66.2	95	17.2 EER	32.59	16.7	56.6	GAS	60,000	49,000	81.6 %	460/3	15.2	20.0	999	TRANE PRECEDENT YHC067	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 19	
RTU-7	AREA-B ROOF	3440	1120	0.75	111.54	84.81	80.96	68.31	95	12.4 EER	82.77	24.9	57.5	GAS	150,000	120,000	80.0 %	460/3	21.9	30.0	1608	TRANE PRECEDENT YHC120	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 19	
RTU-8	AREA-B ROOF	9740	4920	0.75	258.21	187.44	79.05	66.70	95	10.6 EER	185.16	19.0	57.6	GAS	250,000	200,000	80.0 %	460/3	54.0	70.0	3005	TRANE VOYAGER YHD000	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 19, 21	
RTU-9	AREA-B ROOF	3400	1550*	0.75	96.12	74.93	76.64	64.37	95	12.5 EER	79.01	21.4	56.2	GAS	120,000	96,000	80.0 %	460/3	21.6	25.0	1300	TRANE PRECEDENT YHC102	1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 19	
RTU-10	AREA-A ROOF	5000	2800*	0.75	165.53	109.13	77.24	65.02	95	12.1 EER	116.58	21.5	55.8	GAS	250,000	200,000	80.0 %	460/3	35.0	45	2383	TRANE VOYAGER YHD180	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 19, 21	
RTU-11																								REFER TO OTHER SCHEDULE ON THIS SHEET
RTU-12	AREA-C ROOF	1930	530	1.25	68.81	47.25	80.03	67.45	95	12.6 EER	31.33	15.0	55.9	GAS	80,000	64,000	80.0 %	460/3	15.1	20.0	1168	TRANE PRECEDENT YHC072	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 19, 22	
RTU-13	AREA-C ROOF	2900	840	1.25	97.13	71.48	80.30	67.71	95	12.5 EER	79.7	25.3	56.1	GAS	120,000	96,000	80.0 %	460/3	21.6	25.0	1300	TRANE PRECEDENT YHC102	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 19, 22	
RTU-14	AREA-C ROOF	3500	1280	1.25	112.72	85.25	81.62	68.96	95	12.4 EER	93.7	24.4	56.3	GAS	150,000	120,000	80.0 %	460/3	21.9	30.0	1608	TRANE PRECEDENT YHC120	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 19, 22	
RTU-15	AREA-C ROOF	2640	710	1.25	86.79	61.28	79.92	67.35	95	12.6 EER	70.3	24.5	57.5	GAS	120,000	96,000	80.0 %	460/3	19.9	25.0	1291	TRANE PRECEDENT YHC092	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 19, 22	
RTU-16	AREA-C ROOF	1920	350	1.25	67.22	46.77	78.52	6.02	95	12.6 EER	31.93	15.3	54.5	GAS	80,000	64,000	80.0 %	460/3	15.1	20.0	1168	TRANE PRECEDENT YHC072	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 19, 22	
RTU-17	AREA-C ROOF	3120	640	1.25	92.71	69.66	78.75	66.25	95	12.5 EER	79.43	23.5	57.0	GAS	120,000	96,000	80.0 %	460/3	21.6	25.0	1300	TRANE PRECEDENT YHC102	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 19, 22	
RTU-18	AREA-C ROOF	1540	340	0.75	47.70	33.89	79.04	66.52	95	17.5 EER	27.78	16.6	57.5	GAS	60,000	49,000	81.6 %	460/3	13.7	20.0	976	TRANE PRECEDENT YHC047	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 19	
RTU-19	AREA-C ROOF	3400	850	0.75	109.84	82.72	79.58	67.60	95	12.4 EER	91.69	24.9	56.5	GAS	150,000	120,000	80.0 %	460/3	21.9	30.0	1608	TRANE PRECEDENT YHC120	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 19	
RTU-20	AREA-C ROOF	3500	1280	0.75	113.02	85.22	81.69	68.98	95	12.4 EER	93.71	24.7	56.5	GAS	150,000	120,000	80.0 %	460/3	21.9	30.0	1608	TRANE PRECEDENT YHC120	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 19	
RTU-21	AREA-C ROOF	3420	930	0.75	109.69	85.04	79.98	67.41	95	12.4 EER	91.58	24.7	56.4	GAS	150,000	120,000	80.0 %	460/3	21.9	30.0	1608	TRANE PRECEDENT YHC120	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 19	
RTU-22	AREA-C ROOF	3100	870	0.75	95.12	70.95	80.14	67.55	95	12.5 EER	80.06	23.8	56.2	GAS	120,000	96,000	80.0 %	460/3	21.6	25.0	1300	TRANE PRECEDENT YHC102	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 19	
RTU-23	AREA-C ROOF	2540	700	0.75	86.80	60.96	80.04	67.47	95	12.6 EER	70.25	25.5	56.9	GAS	120,000	96,000	80.0 %	460/3	19.9	25.0	1291	TRANE PRECEDENT YHC092	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 19	
RTU-24	AREA-C ROOF	2540	700	0.75	86.80	60.96	80.04	67.47	95	12.6 EER	70.25	25.5	56.9	GAS	120,000	96,000	80.0 %	460/3	19.9	25.0	1291	TRANE PRECEDENT YHC092	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 19	
RTU-25	AREA-B ROOF	1600	200	0.75	46.74	33.90	77.30	64.80	95	17.5 EER	28.70	16.5	56.5	GAS	60,000	49,000	80.0 %	460/3	13.7	20.0	976	TRANE PRECEDENT YHC047E4	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 17, 19	

**NOTES:**  
1. PROVIDE WITH DRY BULB ECONOMIZER WITH BAROMETRIC RELIEF.  
2. PROVIDE WITH HIGH-WIND RATED ROOF CURB.  
3. PROVIDE WITH UNIT MOUNTED DISCONNECT.  
4. PROVIDE WITH A WATER DETECTING DEVICE IN THE UNIT DRAIN PAN TO SHUT UNIT DOWN UPON HIGH CONDENSATE LEVEL.  
5. PROVIDE THERMOSTAT WITH DIGITAL TEMPERATURE DISPLAY, USER INPUT FOR ZONE TEMPERATURE SETPOINT, AND SIGNAL TO BAS FOR UNOCCUPIED OVERRIDE, WITH REMOTE DUCT MOUNTED TEMPERATURE SENSOR. THERMOSTAT EQUAL TO TRANE BAYSENS135 DIGITAL DISPLAY ZONE SENSOR.  
6. PROVIDE DUCT MOUNTED CO2 SENSOR AND WIRING FOR DEMAND CONTROLLED VENTILATION SEQUENCE.  
7. PROVIDE DUCT MOUNTED HUMIDITY SENSOR AND WIRING FOR DEHUMIDIFICATION CONTROL SEQUENCE.  
8. PROVIDE CONDENSER COIL GUARD.  
9. PROVIDE CLOGGED FILTER SWITCH.  
10. PROVIDE HOT GAS REHEAT.  
11. PROVIDE EPOXY COIL COATING ON EVAPORATOR AND CONDENSER COILS FOR SEACOAT APPLICATION.  
12. PROVIDE WITH MERV 7 FILTERS.  
13. PROVIDE WITH 5 YEAR ANTI-CORROSION WARRANTY.  
14. PROVIDE BACKNET INTERFACE FOR BAS CONTROL POINTS.  
15. UNIT TO BE FIELD PAINTED TO CLOSELY MATCH BUILDING BRICK COLOR, REFER TO ARCHITECTURAL PLANS FOR FINISH INFORMATION. SUBMIT COLOR SAMPLES FOR APPROVAL BY ARCHITECT.  
16. UNIT SHALL HAVE TWO COMPRESSORS.  
17. M.C. SHALL PROVIDE FABRICATED COVER FOR UNUSED SUPPLY DOWNFLOW OPENING IN UNIT CABINET.  
18. PROVIDE WITH TALL CURB WITH IN-CURB HORIZONTAL DISCHARGE FOR SUPPLY AND RETURN DUCTWORK, EQUAL TO THYBAR.  
19. PROVIDE SINGLE ZONE VARIABLE AIR VOLUME OPERATION.  
20. PROVIDE TWO SPEED FAN OPERATION.  
21. PROVIDE WITH HIGH-WIND RATED, AND VIBRATION-ISOLATION ROOF CURB.  
22. PROVIDE POWERED EXHAUST.

\* OUTSIDE AIR PROVIDED THROUGH ERV.