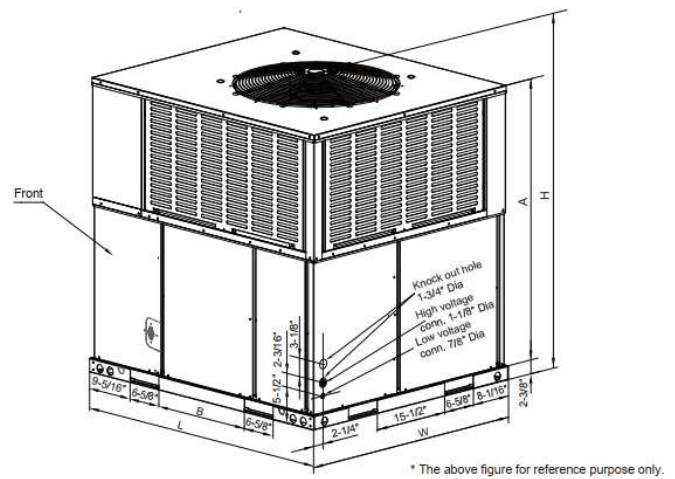
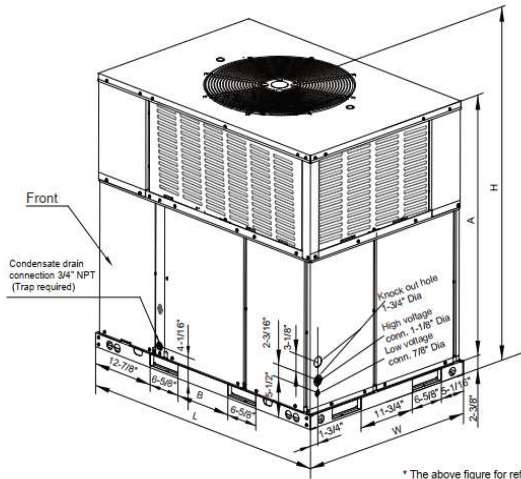


R454B TPHM Series Packaged Rooftop

Cooling capacity: 24-60 kBTU/h



Model	"L" in.[mm]	"W" in.[mm]	"H" in.[mm]	"A" in.[mm]	"B" in.[mm]
24,36	50-11/16 [1287]	35-1/16 [891]	46-13/16 [1190]	44-1/16 [1120]	11-3/4 [298]
48,60	51-9/16 [1310]	44-13/16 [1140]	51-7/16 [1306]	47-5/16 [1202]	19-11/16 [500]

TPHM Series Rooftop Package

	TPHM4024100A	TPHM4036100A	TPHM4048100A	TPHM4060100A
NOMINAL CAPACITY				
Cooling (BTU/h)	22,800	34,000	46,500	56,500
Heating (BTU/h)	22,800	34,200	45,600	57,000
ELECTRICAL DATA				
Voltage / Phase (60 Hz)	208/230V-1Ph	208/230V-1Ph	208/230V-1Ph	208/230V-3Ph
Min. / Max. Voltage (V)	187/253	187/253	187/253	187/253
Min. Circuit Amps (MCA) (A)	17.8	27.7	33.9	42.8
Max. Overcurrent Protection (MOP) (A)	25	35	45	50
COMPRESSOR				
Type	Rotary	Rotary	Scroll	Scroll
Stage	Single	Single	Single	Single
Rated Load Amps (RLA) (A)	12	18	22	28
Locked Rotor Amps (LRA) (A)	55	72	95	125
OUTDOOR COIL				
Type	Tube & Fin	Tube & Fin	Tube & Fin	Tube & Fin
Tube Size (O.D) (in)	9/32	9/32	9/32	9/32
OUTDOOR FAN MOTOR				
Motor Type	PSC	PSC	PSC	PSC
Capacitor (uF)	6	6	15	15
Horsepower (HP)	1/12	1/6	1/3	1/3
Full Load Amps (FLA) (A)	0.8	1.0	2.1	2.1
Rated RPM	878	840	1,050	1,050
INDOOR COIL				
Type	Tube & Fin	Tube & Fin	Tube & Fin	Tube & Fin
Tube Size (O.D) (in)	9/32	9/32	9/32	9/32
INDOOR BLOWER MOTOR				
Motor Type	PSC	ECM	PSC	ECM
Capacitor (uF)	12	/	20	/
Horsepower (HP)	1/5	1/2	4/5	3/4
Full Load Amps (FLA) (A)	2	4.2	4.3	5.7
Rated RPM	908	880	976	950
REFRIGERATION SYSTEM				
Refrigerant Control	Orifice	Orifice	Orifice	Orifice
Refrigerant Charge (lbs. - oz.)	5 lbs. 10 oz.	6 lbs. 13 oz.	8 lbs. 3 oz.	9 lbs. 8 oz.
SOUND POWER (dB(A))	78	78	80	80
OPERATION RANGE				
Cooling (°C)	10~51.7	10~51.7	10~51.7	10~51.7
Cooling (°F)	50~125	50~125	50~125	50~125
Heating (°C)	-15~30	-15~30	-15~30	-15~30
Heating (°F)	5~86	5~86	5~86	5~86
Dimension & Weight				
Unpacking (W*H*D) mm	891 x 1190 x 1287	891 x 1190 x 1287	1140 x 1306 x 1310	1140 x 1306 x 1310
Unpacking (W*H*D) inch	35-1/16 x 46-13/16 x 50-11/16	35-1/16 x 46-13/16 x 50-11/16	44-13/16 x 51-7/16 x 51-9/16	44-13/16 x 51-7/16 x 51-9/16
Packing (W*H*D) mm	937 x 1256 x 1330	937 x 1256 x 1330	1164 x 1329 x 1339	1164 x 1329 x 1339
Packing (W*H*D) inch	36-7/8 x 49-7/16 x 52-3/8	36-7/8 x 49-7/16 x 52-3/8	45-5/6 x 52-1/3 x 52-5/7	45-5/6 x 52-1/3 x 52-5/7
Net/Gross weight kg	180/189	189/198	247/255	250/258
Net/Gross weight lb	397/416	415/435	544/562	551/569
Shipping per STD 40HQ	42	42	31	31

6 Airflow Data

Duct Application

Model Number	Motor Speed		External Static Pressure-Inches W.C. [kPa]								
			0[0]	0.1[.02]	0.2[.05]	0.3[.07]	0.4[.10]	0.5[.12]	0.6[.15]	0.7[.17]	0.8[.20]
24	Low	CFM	891	829	769	704	630	571	506	441	376
		Current2/A	0.98	1	1	0.95	0.94	0.92	0.92	0.91	0.89
		Power2/W	226	223	221	218	216	213	211	208	206
	Middle-Factory	SCFM	1199	1104	1009	900	828	750	610	535	440
		CFM	1.4	1.39	1.37	1.37	1.35	1.34	1.33	1.29	1.27
		Current2/A	324	320	316	312	308	304	300	296	292
	High	Power2/W	1398	1299	1200	1101	1002	897	810	711	600
		CFM	1.87	1.86	1.84	1.81	1.78	1.76	1.73	1.70	1.67
		Current2/A	429	421	413	405	398	389	383	373	366
36	Tap 1	CFM	784	722	662	578	485	434	365	288	217
		Current/A	0.9	0.9	0.9	1	1	1.1	1.1	1.2	1.2
		Power/W	101	105	110	115	119	127	130	136	141
	Tap 2	CFM	1030	983	935	890	840	758	713	664	613
		Current/A	1.89	1.93	1.96	2.01	2.05	2.11	2.15	2.19	2.23
		Power/W	199	204	209	215	221	230	235	241	246
	Tap 3	CFM	1150	1108	1064	1023	982	942	864	812	771
		Current/A	2.40	2.44	2.48	2.53	2.58	2.62	2.71	2.76	2.80
		Power/W	269	275	280	287	293	299	311	318	323
	Tap 4	CFM	1310	1271	1233	1195	1159	1122	1085	1045	966
		Current/A	3.26	3.31	3.36	3.41	3.46	3.51	3.56	3.62	3.72
		Power/W	387	393	400	406	414	421	428	436	450
	Tap 5	CFM	1350	1330	1291	1254	1217	1183	1148	1114	1078
		Current/A	3.65	3.69	3.74	3.79	3.84	3.89	3.95	4.00	4.06
		Power/W	439	446	452	459	466	473	481	489	498

TPHM Series Rooftop Package

Continued

Model Number	Motor Speed		External Static Pressure-Inches W.C. [kPa]								
			0[0]	0.1[.02]	0.2[.05]	0.3[.07]	0.4[.10]	0.5[.12]	0.6[.15]	0.7[.17]	0.8[.20]
48	Low - Factory	CFM	1506	1432	1357	1267	1200	1118	1039	960	882
		Current/A	2.18	2.16	2.14	2.11	2.08	2.06	2.03	2.00	1.97
		Power/W	452	444	434	422	410	399	388	376	365
	Middle	CFM	1592	1502	1412	1337	1261	1200	1108	1029	951
		Current/A	2.65	2.63	2.6	2.57	2.54	2.51	2.48	2.45	2.43
		Power/W	529	519.5	510	498	486	471	462	451	439
	High	CFM	1670	1592	1513	1422	1331	1222	1200	1088	1005
		Current/A	3.31	3.28	3.25	3.22	3.19	3.15	3.1	3.08	3.04
		Power/W	642	630.5	619	606	594	579	563	553	540
60 (208/230V~60Hz)	Tap 1	CFM	1168	1118	1065	1012	954	897	845	793	752
		Current/A	1.92	1.97	2.03	2.09	2.14	2.20	2.25	2.29	2.33
		Power/W	206	213	221	229	237	245	252	257	263
	Tap 2	CFM	1246	1199	1149	1099	1047	992	941	891	845
		Current/A	2.18	2.24	2.29	2.35	2.42	2.48	2.54	2.59	2.63
		Power/W	242	250	258	267	276	285	293	299	306
	Tap 3	CFM	1418	1376	1332	1285	1239	1194	1144	1095	1050
		Current/A	2.90	2.96	3.02	3.09	3.15	3.22	3.29	3.36	3.42
		Power/W	343	352	360	369	379	388	398	408	416
	Tap 4	CFM	1701	1665	1629	1592	1555	1519	1481	1446	1405
		Current/A	4.58	4.65	4.72	4.80	4.88	4.96	5.04	5.13	5.20
		Power/W	582	593	603	615	626	638	650	663	673
	Tap 5	CFM	1774	1740	1706	1670	1635	1595	1552	1508	1461
		Current/A	5.13	5.21	5.28	5.36	5.44	5.50	5.54	5.58	5.62
		Power/W	663	674	685	696	708	717	724	729	735

The rated airflow of system (high stage setting) requires more than 300 CFM/Ton

Features

- Quiet horizontal discharge.
- Compatible with side and bottom air discharge
- Power-painted galvanized steel cabinet.
- Electric heat kit available as a field-installed option: 5/8/10/15/20kW.
- High-efficiency compressors operate smoothly, quietly, and consistently.
- Internal safeguards protect the compressor against high and low pressure, and coil temperature.
- Aluminum tube/aluminum fin coil.
- High-efficiency ECM blower motor.
- AHRI Certified and ETL listed.
- Compliant with UL-60335 certification.
- Uses more environmentally friendly R454B refrigerant.
- Full DC variable speed condenser motor, more efficient, smarter, and quieter.

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Note: Product specifications change from time to time as product improvements and developments are released and may vary from those in this document.

