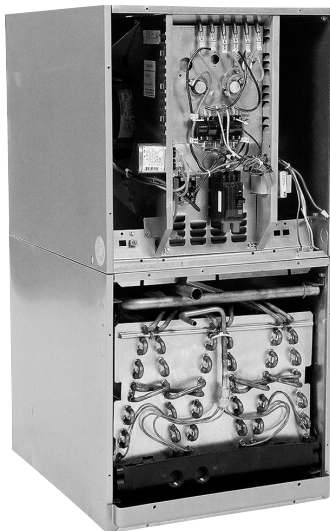




AIR HANDLERS

Features

- 1 1/2 ton [5.3 kW] through 5 ton [17.6 kW] models with Multiflex® coils are always just 35 inches [889 mm] tall and 22 inches [559 mm] deep.
- Available from factory in upflow and horizontal configurations.
- Versatile 4-way convertible design for upflow, downflow, horizontal left and horizontal right.
- All models meet or exceed 400 CFM [189 L/s] per ton at .5 inches [12 kPa] of external static pressure.
- Enhanced airflow up to 1.0" external static pressure.
- Optional factory or field installed MultiFlex® coils.
- Sturdy double wall construction with .5 inch [12 kPa] of reinforced foil faced insulation for excellent thermal and sound insulation
- Toolless accessibility of washable furnished filter standard on most models.
- Circuit breaker (standard on units with more than 11 kW) meets U.L. and CUL requirements for service disconnect.
- Factory installed electric heat. Available in 5-25 kW.
- Watt restrictors, standard on 14AH models above 7 kW and on 17AH, 21AH, and 24AH models above 11 kW, stage supplemental heat so that only the necessary amount is engaged to maintain comfort in the conditioned space.



Engineering Features

14AH Series

- The most compact unit design available, all standard heat air handler models only 35 inches [89 mm] high.
- Attractive pre-painted cabinet exterior.
- Rugged double wall steel cabinet construction, designed for added strength and versatility.
- .5" foil faced insulation mechanically retained in blower compartment.
- Four leg flexible blower motor mount.
- Circuit breakers standard on 1-phase models above 11 kW and optional on models with 11 kW or less.
- Models supplied with circuit breakers meet UL and cUL requirements as a service disconnect switch.
- Provisions for field electrical, connections from either side of air handler cabinet.
- Tab lock blower housing with integrated electric heaters, controls, motor and blower. Slide out design for service and maintenance convenience.
- Exclusive dependable incoloy sheath type electric heating elements located in the blower housing provide mixed warm air.
- Traditional open wire element design optional for high heat applications.
- Field convertible for vertical upflow, vertical downflow, horizontal left hand or right hand air supply.
- 2 combustible floor base accessories fit all model sizes when required for downflow installations on combustible floors.
- Durable framed cleanable air filter provided as standard in unit filter rack.
- MultiFlex® indoor coil design provides low air side pressure drop, high performance and extremely compact size. All coils come with PVC condensate elbow standard.
- Flow check piston or expansion valve on indoor coil provides for operation with air conditioning or heat pump using the same coil. (Some models require piston size change.)
- All indoor coils have copper tubing and aluminum fins.
- Molded polymer corrosion resistant condensate drain pan is provided on all indoor coils.
- Both supply and return duct flanges provided as standard on air handler cabinet.
- Connection points for both high voltage and low voltage control wiring inside air handler cabinet.
- Concentric knockouts are provided for power connection to cabinet. Installer may pull desired hole size up to 2 inches [51 mm] for 1½ inch [38 mm] conduit.
- Patented watt restrictor on heat pump models to control electric heat during heating operation.
- Separate filter door with thumbscrews provides easy access to the air filter in upflow and horizontal applications.
- Front refrigerant and drain connections.

Watt-restrictor

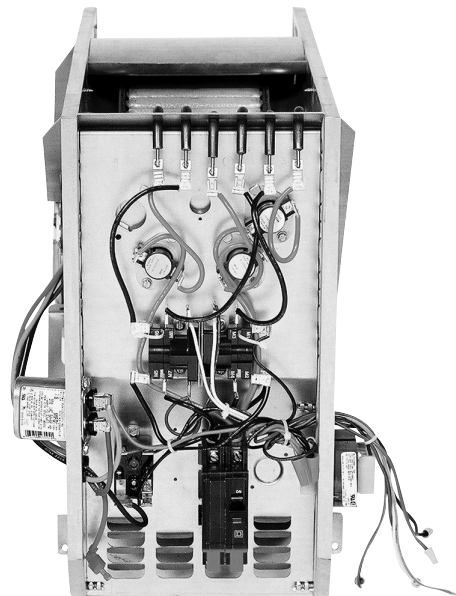
Supplemental heat, provided by electric heating elements may be necessary in some areas when heating requirements for indoor comfort exceed the capacity of the heat pump system. When supplemental heat is required, units with the Watt Restrictor will restrict the amount of supplemental electric heat that can be energized dependent on the heat output of the heat pump (temperature of the air leaving the indoor heat pump coil).

The Watt-restrictor utilizes sensing devices in the unit to sense the air temperature leaving the indoor coil and disengage unnecessary heating elements when that temperature is at least 85°F [29°C]. (In this mode your system is controlled by the first stage of the wall thermostat.) This occurs only when the second stage of the wall thermostat calls for heat.

Since the heat output of the heat pump is dependent upon the outdoor air temperature, this control performs the same function as a field installed outdoor thermostat.

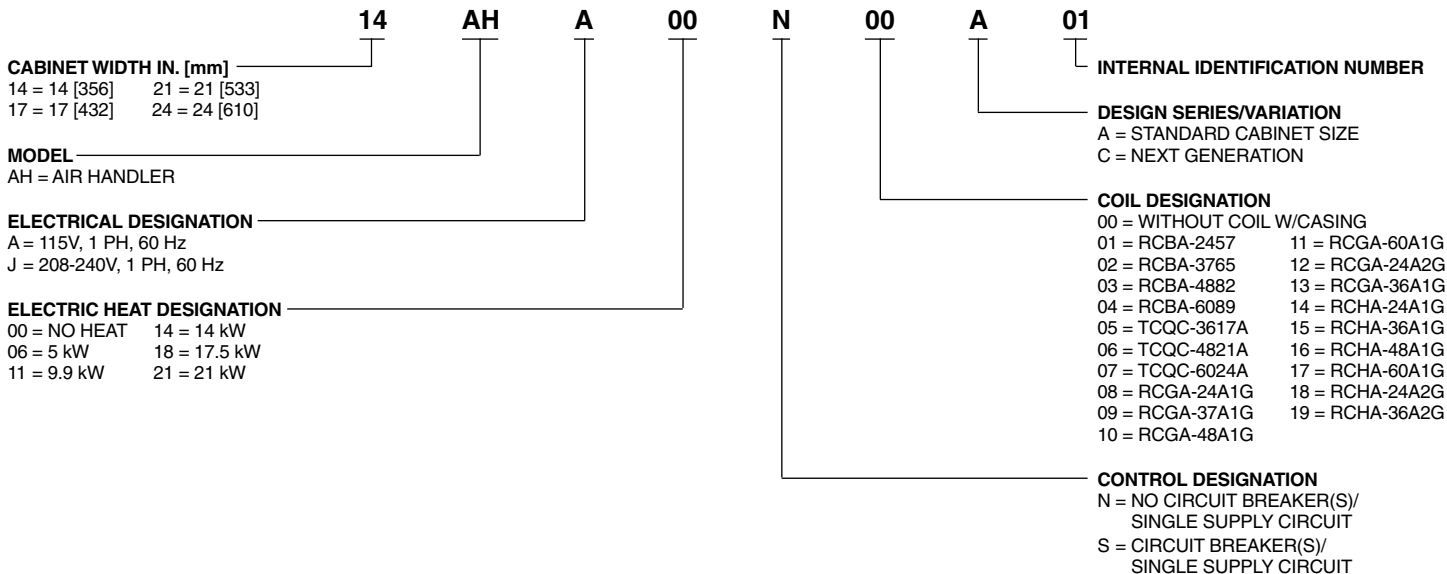
An additional benefit of the Watt Restrictor is that it can sense a degradation in heat pump performance due to causes other than outdoor temperature and react accordingly to bring on more supplemental electric heat.

[] Designates Metric Conversions



**BLOWER
SECTION**

Model Identification



Cabinet Width In. [mm]	A 115V 1 PH 60 Hz	J 208-240V 1 PH 60 Hz	Coil Model	A) Motor H.P. B) Blower CFM [L/s] Lo/High Speed C) Blower Wheel Dia./Width In. [mm] D) Filter Size Width/Length In. [mm]	Outdoor Unit Size (BTUH)
	N	S			
14 14.0 [356]	00	06 11	RCBA-2457 RCHA-24A1G RCHA-24A2G RCGA-24A1G RCGA-24A2G	A) 1/8 H.P. B) Lo 600 [283] Hi 800 [378] C) 11.9 x 3.81 [302 x 97] D) 12.75 x 21 [324 x 533]	18,000 24,000
17 17.5 [445]	00	06 11 14	RCBA-3765 RCGA-37A1G RCGA-36A1G RCHA-36A1G RCHA-36A2G TCQC-3617A	A) 1/4 H.P. B) Lo 1000 [472] Hi 1200 [566] C) 11.9 x 5.29 [302 x 134] D) 16.25 x 21 [413 x 533]	30,000 36,000
21 21.0 [533]	00	11 14 18	RCBA-4882 RCGA-48A1G RCHA-48A1G TCQC-4821A	A) 1/3 H.P. B) Lo 1400 [661] Hi 1600 [755] C) 11.9 x 7.12 [302 x 181] D) 19.75 x 21 [502 x 533]	42,000 48,000
24 24.5 [622]	00	11 18 21	RCBA-6089 RCGA-60A1G RCHA-60A1G TCQC-6024A	A) 1/2 H.P. B) Hi 2000 [944] C) 11.9 x 9.50 [302 x 241] D) 23.25 x 21 [591 x 533]	60,000

NOTES: (1) Coil piston size indicated by last two digits of RCBA- coil model number.
 (2) Electric heater BTUH = (heater watts + motor watts) x 3.412 (See airflow table for motor watts).
 (3) Models with **BOLD** numerals in the electrical heat (kw) column, have watt restrictor and defrost heat controls.
 (4) Some outdoor units require piston change. See outdoor unit specification for details.

[] Designates Metric Conversions

GENERAL TERMS OF LIMITED WARRANTY

ICECOSM will furnish a replacement for any part of this product which fails in normal use and service within the applicable periods stated, in accordance with the terms of the limited warranty.

For Complete Details of the Limited Warranty, Including Applicable Terms and Conditions, See Your Local Installer or visit www.ICECOhvac.com.

MultiFlex Coil leaks caused by
 factory defectsFive (5) Years
 Any Other PartFive (5) Years

Unit Dimensions with MultiFlex® Coil

NOTE: 24" CLEARANCE REQUIRED IN FRONT OF UNIT FOR FILTER AND COIL MAINTENANCE.

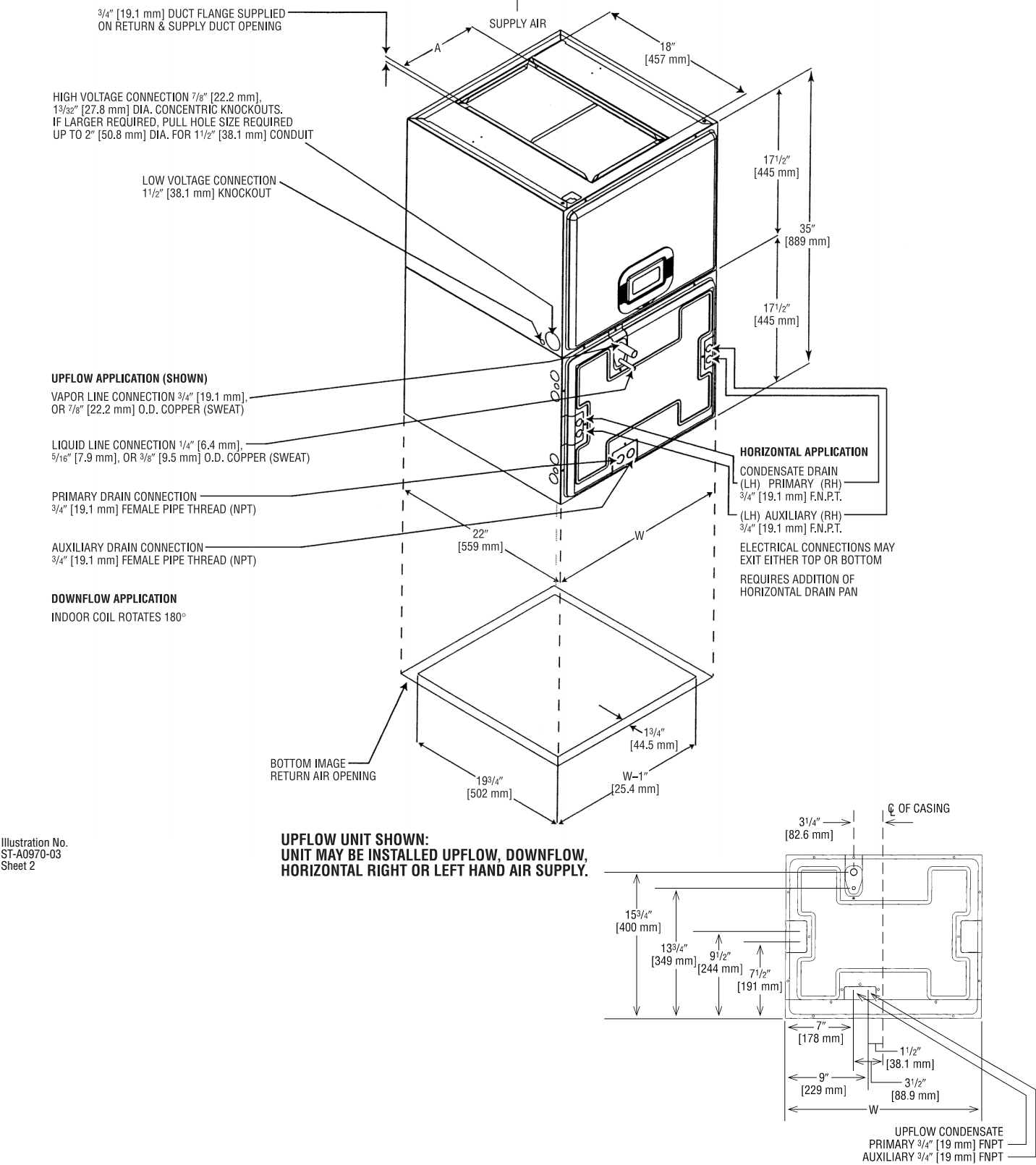


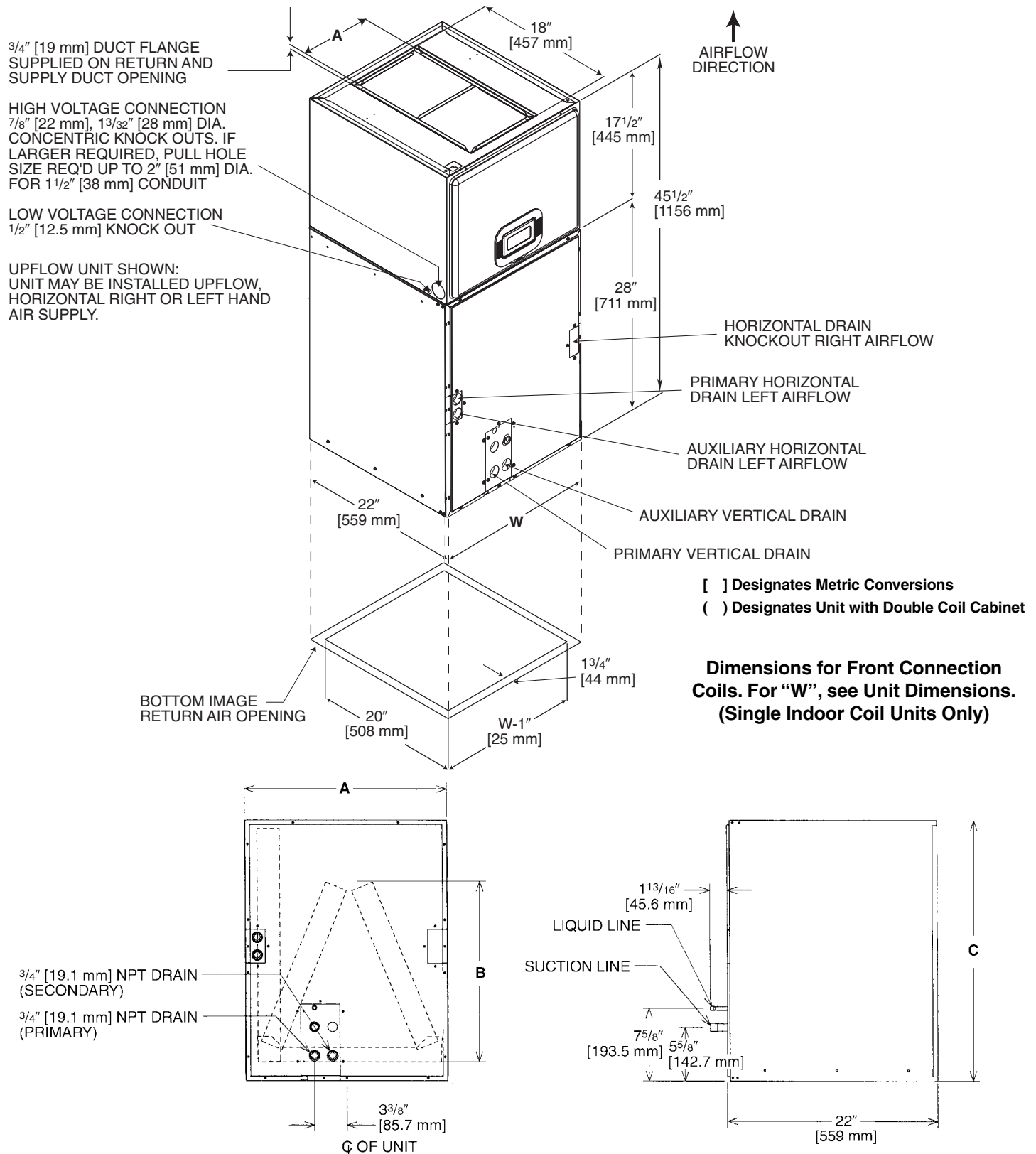
Illustration No. ST-A0970-03 Sheet 2

Unit Dimensions & Weights

Model Number	Unit Width "W" In. [mm]	Supply Duct "A" In. [mm]	Air Flow CFM (Nom.) [L/s]		Unit Weight/Shipping Weight (Lbs.) [kg]		
			Lo	Hi	Unit With Coil (Max. kW)	Unit Without Coil	Unit Without Coil Casing
14AH	14 [356]	6 3/32 [155]	600 [283]	800 [378]	81/88 [37/40]	66/73 [30/33]	49/54 [22/24]
17AH	17 1/2 [445]	7 9/16 [192]	1000 [472]	1200 [566]	92/99 [42/45]	72/79 [33/36]	53/59 [24/27]
21AH	21 [533]	9 7/16 [240]	1400 [661]	1600 [755]	109/117 [49/53]	83/91 [38/41]	63/69 [29/31]
24AH	24 1/2 [622]	11 3/4 [298]	—	2000 [944]	125/134 [57/61]	93/102 [42/46]	71/78 [32/35]

NOTE: Subtract 1.5 lbs. [.68 kg] for each heater element less than maximum.

Unit Dimensions with “A” Coil

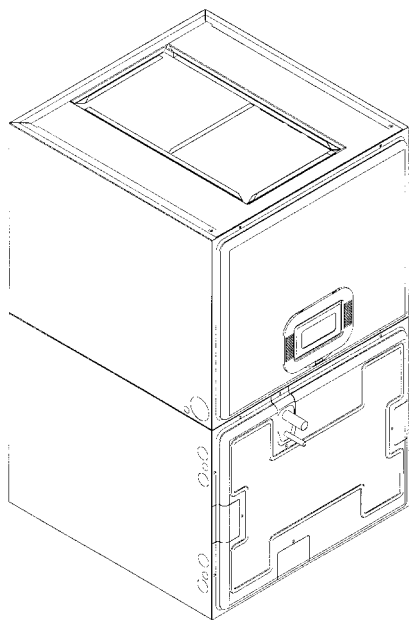


Unit Dimensions & Weights

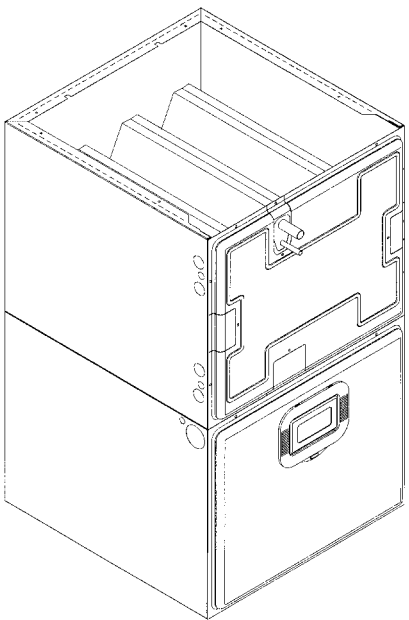
Model Number 14AH- (with double coil)	Unit Width "W" In. [mm]	Supply Duct "A" In. [mm]	Air Flow CFM (Nom.) [L/s]		Unit Weight/Shipping Weight (Lbs.) [kg]
			Lo	Hi	Unit With Coil (Max. KW)
17	17 1/2 [445]	7 9/16 [192]	800 [378]		136/143 [62/65]
21	21 [533]	9 7/16 [240]	1000 [472]		169/177 [77/80]
24	24 1/2 [622]	11 3/4 [298]	1200 [566]	1275 [602]	190/199 [86/90]

Airflow Directions

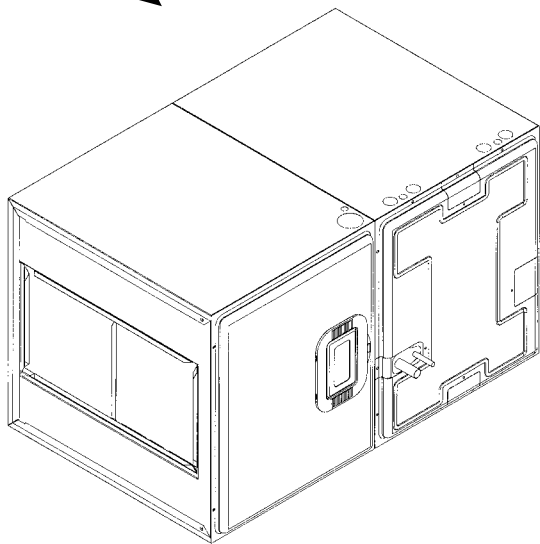
UPFLOW



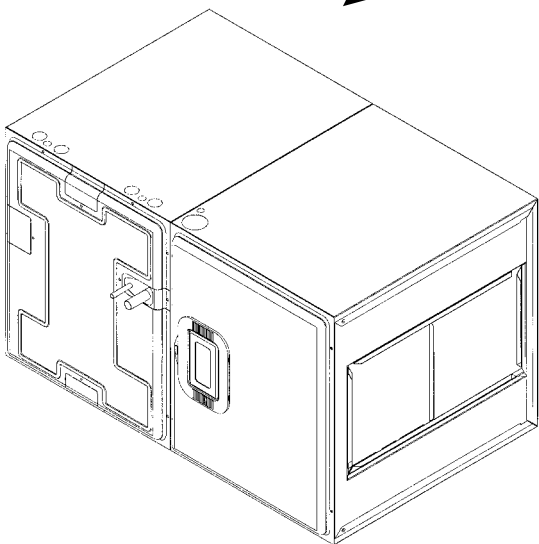
DOWNFLOW



**HORIZONTAL LEFT
HAND AIRFLOW**



**HORIZONTAL RIGHT
HAND AIRFLOW**



NOTE: Coil and blower section are always in a draw through configuration.

Airflow Performance

Airflow performance data is based on cooling performance with dry coil and filter in place. Select performance table for appropriate unit size, voltage and number of electric heaters to be used. Make sure external static applied to unit allows operation within the minimum and maximum limits shown in table below for both cooling and electric heat operation. For optimum blower performance, operate the unit in the .2 [5 mm] to .5 inches [13 mm] W.C. external static range. Units with coils should be applied with a minimum of .1 inch [3 mm] W.C. exter-

nal static range. Units without coils should be applied with a minimum of .2 inches [5 mm] W.C. external static pressure. In general, the indoor motor speed tap should be as shown in table for the appropriate cooling capacity shown; however, at extremes of external static, voltage and number of heaters the higher or lower speed tap may be necessary or more desirable. Always check to make sure proper motor speed tap is connected as units are shipped from the factory connected for high speed operation.

Airflow Operating Limits

Model Cabinet Size	14		17		21		24
Cooling BTUH x 1,000	-018	-024	-030	-036	-042	-048	-060
Cooling Tons Nominal	1.5	2	2.5	3	3.5	4	5
Heat Pump or Air Conditioning Maximum Heat/Cool CFM [L/s] (37.5 CFM [18 L/s]/1,000 BTUH) (450 CFM [212 L/s]/Ton Nominal)	675 [319]	900 [425]	1125 [531]	1350 [637]	1575 [743]	1800 [850]	1930 [911]
Heat Pump or Air Conditioning Nominal Heat/Cool CFM [L/s] (33.3 CFM [16 L/s]/1,000 BTUH) (400 CFM [189 L/s]/Ton Nominal)	600 [283]	800 [378]	1000 [472]	1200 [566]	1400 [661]	1600 [755]	1800 [850]
Heat Pump or Air Conditioning Minimum Heat/Cool CFM [L/s] (30.0 CFM [14 L/s]/1,255 BTUH) (360 CFM [170 L/s]/Ton Nominal)	540 [255]	720 [340]	900 [425]	1080 [510]	1260 [595]	1440 [680]	1620 [765]
Blower Motor Speed	Low	High	Low	High	Low	High	High
Maximum kW Electric Heating & Minimum Electric Heat CFM [L/s]	13 490 [231]	13 490 [231]	20 900 [425]	20 900 [425]	25 1220 [576]	25 1220 [576]	25 1500 [708]
Maximum Electric Heat Rise °F [°C]	85 [29]	85 [29]	70 [21]	70 [21]	65 [18]	65 [18]	55 [13]

Airflow Performance Data—Matched with MultiFlex® Coil

Model Cabinet Size	Electric Heaters	Blower Motor			CFM [L/s] (Watts)/External Static Pressure—Inches W.C. [kPa]										
		Speed	Volts*		.00	.10 [.02]	.20 [.05]	.30 [.07]	.40 [.10]	.50 [.12]	.60 [.15]	.70 [.17]	.80 [.20]	.90 [.22]	1.0 [.25]
14	None	Low	230	CFM	723 [341]	711 [336]	693 [327]	671 [317]	644 [304]	612 [289]	▲575 [271]	▲533 [252]	▲487 [230]	▲436 [206]	▲379 [179]
				RPM	588	626	663	701	738	776	813	850	888	925	963
				Watts	210	209	208	205	202	197	192	187	180	172	164
				Amps	1.01	1.01	0.99	0.98	0.97	0.93	0.93	0.90	0.86	0.83	0.78
	3 (Max.)	Low	230	CFM	†	658 [311]	649 [306]	632 [298]	609 [287]	577 [272]	▲539 [254]	▲492 [232]	▲439 [207]	▲378 [178]	▲309 [146]
				RPM	†	640	679	718	757	796	835	875	914	953	992
				Watts	†	204	203	200	197	193	188	182	175	167	157
				Amps	†	0.94	0.94	0.92	0.90	0.84	0.85	0.82	0.79	0.74	0.70
	None	Low	208	CFM	707 [334]	699 [330]	686 [324]	668 [315]	644 [304]	615 [290]	▲581 [274]	▲542 [256]	▲497 [235]	▲488 [211]	▲393 [185]
				RPM	587	624	662	699	736	774	811	848	886	923	960
				Watts	207	207	206	204	201	197	192	186	179	172	163
				Amps	1.05	1.04	1.03	1.02	1.00	0.99	0.96	0.94	0.90	0.87	0.81
	3 (Max.)	Low	208	CFM	†	666 [314]	652 [308]	632 [298]	606 [286]	573 [270]	▲535 [252]	▲491 [232]	▲441 [208]	▲385 [182]	▲323 [152]
				RPM	†	633	672	712	752	791	831	870	910	949	989
				Watts	†	204	203	201	198	194	189	182	175	166	157
				Amps	†	1.02	1.03	1.02	1.00	0.97	0.93	0.91	0.87	0.84	0.79
	None	High	230	CFM	943 [445]	926 [437]	906 [428]	881 [416]	853 [403]	821 [387]	▲785 [370]	▲745 [352]	▲702 [331]	▲655 [309]	▲604 [285]
				RPM	751	775	799	822	846	870	893	917	941	964	988
				Watts	312	309	304	300	294	288	281	274	266	257	248
				Amps	1.44	1.43	1.41	1.39	1.36	1.33	1.30	1.26	1.23	1.19	1.15
	3 (Max.)	High	230	CFM	†	†	854 [403]	833 [393]	806 [380]	772 [364]	▲732 [345]	▲685 [323]	▲632 [298]	▲572 [270]	▲506 [239]
				RPM	†	†	804	831	857	884	910	937	963	989	1016
				Watts	†	†	297	294	290	284	277	268	258	247	235
				Amps	†	†	1.33	1.32	1.29	1.26	1.22	1.18	1.14	1.10	1.04

*For 115 and 460 volt units use 230 volt data shown above.

† Airflow becomes unstable at low static pressures.

▲ WARNING: Observe airflow operating limits if operating in area of airflow table shown in bold.

Airflow Performance Data, continued

Model Cabinet Size	Electric Heaters	Blower Motor			CFM [L/s] (Watts)/External Static Pressure—Inches W.C. [kPa]										
		Speed	Volts*		.00	.10 [.02]	.20 [.05]	.30 [.07]	.40 [.10]	.50 [.12]	.60 [.15]	.70 [.17]	.80 [.20]	.90 [.22]	1.0 [.25]
14	None	High	208	CFM	973 [459]	956 [451]	935 [441]	911 [430]	883 [417]	851 [402]	▲815 [385]	▲775 [366]	▲732 [345]	▲684 [323]	▲633 [299]
				RPM	762	785	808	831	854	877	900	923	946	969	992
				Watts	326	321	317	311	305	299	292	284	277	268	259
				Amps	1.64	1.63	1.60	1.57	1.56	1.54	1.49	1.47	1.41	1.38	1.33
	3 (Max.)	High	208	CFM	†	†	879 [415]	860 [406]	834 [394]	801 [378]	▲762 [360]	▲717 [338]	▲664 [313]	▲606 [286]	▲540 [255]
				RPM	†	†	822	847	871	895	919	943	968	992	1016
				Watts	†	†	316	311	305	298	290	281	272	261	249
				Amps	†	†	1.52	1.51	1.48	1.46	1.41	1.37	1.32	1.27	1.20
17	None	Low	230	CFM	1130 [533]	1114 [526]	1095 [517]	1072 [506]	1045 [493]	1015 [479]	▲981 [463]	▲944 [446]	▲902 [426]	▲858 [405]	▲809 [382]
				RPM	650	681	712	743	775	806	837	868	899	931	962
				Watts	368	366	362	358	352	345	338	329	319	308	296
				Amps	1.73	1.70	1.66	1.64	1.60	1.57	1.53	1.49	1.43	1.38	1.32
	4 (Max.)	Low	230	CFM	1140 [538]	1123 [530]	1100 [519]	1070 [505]	1035 [488]	993 [469]	946 [446]	892 [421]	833 [393]	†	†
				RPM	702	733	763	794	824	855	885	916	946	†	†
				Watts	374	369	363	356	348	339	329	318	306	†	†
				Amps	1.70	1.67	1.63	1.62	1.57	1.51	1.47	1.42	1.35	†	†
	None	Low	208	CFM	1176 [555]	1161 [548]	1141 [538]	1118 [528]	1091 [515]	1060 [500]	▲1025 [484]	▲986 [465]	▲944 [446]	▲897 [423]	▲847 [400]
				RPM	673	702	731	760	789	818	847	877	906	935	964
				Watts	395	392	387	381	375	367	359	350	339	328	315
				Amps	1.99	1.96	1.94	1.90	1.86	1.82	1.77	1.72	1.68	1.60	1.54
	4 (Max.)	Low	208	CFM	1182 [558]	1156 [546]	1127 [532]	1094 [516]	1057 [499]	1015 [479]	970 [458]	921 [435]	867 [409]	†	†
				RPM	727	755	784	813	841	870	899	928	956	†	†
				Watts	390	385	379	372	364	355	349	332	319	†	†
				Amps	1.97	1.95	1.90	1.84	1.81	1.74	1.71	1.63	1.58	†	†
	None	High	230	CFM	1363 [643]	1340 [632]	1314 [620]	1284 [606]	1251 [590]	1214 [573]	▲1173 [554]	▲1129 [533]	▲1081 [510]	▲1030 [486]	▲976 [461]
				RPM	775	797	818	840	862	883	905	926	948	969	991
				Watts	476	470	463	455	445	435	423	411	397	382	366
				Amps	2.14	2.11	2.09	2.05	1.99	1.94	1.88	1.83	1.79	1.72	1.65
	4 (Max.)	High	230	CFM	1334 [630]	1315 [621]	1289 [608]	1256 [593]	1216 [574]	1169 [552]	1116 [527]	1055 [498]	988 [466]	913 [431]	832 [393]
				RPM	815	836	858	879	901	922	944	965	987	1008	1030
				Watts	464	458	451	442	431	420	407	393	378	361	343
				Amps	2.08	2.06	2.02	1.97	1.92	1.87	1.82	1.75	1.67	1.60	1.57
	None	High	208	CFM	1445 [540]	1418 [669]	1389 [656]	1357 [640]	1322 [624]	1284 [606]	▲1242 [586]	▲1198 [565]	▲1151 [543]	▲1101 [520]	▲1048 [495]
				RPM	814	833	852	871	891	910	929	949	968	987	1006
				Watts	516	508	499	489	479	469	458	446	434	421	408
				Amps	2.56	2.52	2.48	2.42	2.37	2.32	2.26	2.22	2.14	2.08	2.01
	4 (Max.)	High	208	CFM	1407 [664]	1384 [653]	1355 [639]	1319 [622]	1276 [602]	1226 [579]	1169 [552]	1105 [522]	1034 [488]	957 [452]	872 [412]
				RPM	857	876	894	912	931	949	967	986	1004	1022	1041
				Watts	504	497	489	479	468	456	443	428	413	396	377
				Amps	2.52	2.46	2.41	2.36	2.31	2.26	2.17	2.13	2.05	1.96	1.82
21	None	Low	230	CFM	1547 [730]	1527 [721]	1503 [709]	1474 [696]	1440 [680]	1402 [662]	▲1360 [642]	▲1312 [619]	▲1260 [595]	▲1204 [568]	▲1143 [539]
				RPM	646	674	703	731	760	788	817	846	874	903	931
				Watts	541	536	531	525	518	510	501	491	479	467	454
				Amps	2.38	2.36	2.32	2.30	2.26	2.22	2.19	2.14	2.08	2.01	1.94
	5 (Max.)	Low	230	CFM	1490 [703]	1476 [697]	1455 [687]	1425 [673]	1388 [655]	1342 [633]	▲1288 [608]	▲1227 [579]	▲1157 [546]	▲1079 [509]	▲994 [469]
				RPM	672	702	732	762	792	822	852	882	912	942	972
				Watts	529	528	524	519	511	502	491	479	464	448	430
				Amps	2.35	2.33	2.29	2.26	2.23	2.18	2.13	2.08	2.00	1.92	1.81
	None	Low	208	CFM	1555 [734]	1542 [728]	1523 [719]	1498 [707]	1467 [692]	1431 [675]	▲1389 [656]	▲1342 [633]	▲1289 [608]	▲1230 [580]	▲1166 [550]
				RPM	651	679	708	736	765	793	822	850	879	907	935
				Watts	549	546	542	536	529	522	512	502	491	478	464
				Amps	2.69	2.66	2.63	2.59	2.56	2.51	2.46	2.41	2.35	2.29	2.19
	5 (Max.)	Low	208	CFM	1521 [718]	1505 [710]	1482 [699]	1452 [685]	1414 [667]	1369 [646]	▲1317 [622]	▲1257 [593]	▲1190 [562]	▲1116 [527]	▲1034 [488]
				RPM	680	709	739	768	798	827	857	886	916	945	975
				Watts	543	540	535	529	521	512	501	488	474	458	440
				Amps	2.63	2.62	2.60	2.56	2.51	2.46	2.39	2.33	2.27	2.17	2.08

*For 115 and 460 volt units use 230 volt data shown above.

† Airflow becomes unstable at low static pressures.

▲ WARNING: Observe airflow operating limits if operating in area of airflow table shown in bold.

Airflow Performance Data, continued

Model Cabinet Size	Electric Heaters	Blower Motor			CFM [L/s] (Watts)/External Static Pressure—Inches W.C. [kPa]										
		Speed	Volts*		.00	.10 [.02]	.20 [.05]	.30 [.07]	.40 [.10]	.50 [.12]	.60 [.15]	.70 [.17]	.80 [.20]	.90 [.22]	1.0 [.25]
21	None	High	230	CFM	1744 [823]	1725 [814]	1700 [802]	1671 [789]	1637 [773]	1598 [754]	▲1555 [734]	▲1506 [711]	▲1453 [686]	▲1395 [658]	▲1332 [629]
				RPM	729	752	775	798	821	844	867	890	913	937	960
				Watts	654	649	643	636	627	618	607	594	581	566	551
				Amps	2.88	2.85	2.81	2.78	2.73	2.67	2.60	2.57	2.52	2.46	2.37
	5 (Max.)	High	230	CFM	1707 [806]	1688 [797]	1662 [784]	1628 [768]	1587 [749]	1538 [726]	▲1482 [699]	▲1418 [669]	▲1346 [635]	▲1267 [598]	▲1180 [557]
				RPM	754	777	801	825	849	873	896	920	944	968	991
				Watts	646	642	635	627	616	604	591	575	558	539	518
				Amps	2.83	2.81	2.77	2.73	2.68	2.63	2.55	2.48	2.41	2.32	2.22
	None	High	208	CFM	1821 [859]	1796 [848]	1766 [833]	1733 [367]	1696 [800]	1654 [781]	▲1609 [759]	▲1559 [736]	▲1505 [710]	▲1447 [683]	▲1385 [654]
				RPM	752	773	795	817	839	860	882	904	926	947	969
				Watts	690	683	674	665	655	644	632	619	605	590	574
				Amps	3.32	3.29	3.23	3.18	3.12	3.10	3.01	2.95	2.90	2.82	2.72
	5 (Max.)	High	208	CFM	1764 [833]	1741 [822]	1711 [808]	1675 [791]	1632 [770]	1583 [747]	▲1527 [721]	▲1464 [691]	▲1394 [658]	▲1318 [622]	▲1236 [583]
				RPM	785	806	828	849	871	892	914	935	957	978	1000
				Watts	676	668	660	650	638	625	611	595	578	560	540
				Amps	3.27	3.21	3.16	3.13	3.07	3.02	2.93	2.85	2.78	2.68	2.57
24	None	High	230	CFM	1984 [936]	1961 [925]	1932 [912]	1895 [894]	1851 [874]	1800 [850]	▲1741 [822]	▲1675 [791]	▲1602 [756]	▲1521 [718]	▲1433 [676]
				RPM	652	680	708	736	764	791	819	847	875	903	931
				Watts	713	710	706	702	695	688	680	670	660	648	635
				Amps	3.17	3.14	3.14	3.12	3.10	3.09	3.07	3.06	3.03	3.01	2.97
	6 (Max.)	High	230	CFM	1935 [913]	1902 [898]	1861 [878]	1811 [855]	1753 [827]	1687 [796]	▲1612 [761]	▲1529 [722]	▲1438 [679]	▲1338 [631]	†
				RPM	684	712	741	769	798	827	855	884	912	941	†
				Watts	699	696	693	687	680	671	661	649	635	620	†
				Amps	3.13	3.12	3.11	3.10	3.08	3.08	3.02	3.00	2.97	2.93	†
	None	High	208	CFM	2062 [973]	2033 [959]	1998 [943]	1956 [923]	1907 [900]	1852 [874]	▲1790 [845]	▲1722 [813]	▲1647 [777]	▲1566 [739]	▲1478 [698]
				RPM	678	704	731	757	783	810	836	863	889	916	942
				Watts	745	742	738	733	727	720	712	703	694	683	672
				Amps	3.70	3.69	3.67	3.64	3.63	3.62	3.61	3.58	3.54	3.53	3.48
	6 (Max.)	High	208	CFM	2003 [945]	1973 [931]	1934 [913]	1885 [890]	1826 [862]	1757 [829]	▲1677 [791]	▲1588 [749]	▲1489 [703]	▲1380 [651]	▲1261 [595]
				RPM	704	732	759	786	813	840	867	895	922	949	976
				Watts	747	742	736	729	720	710	698	685	670	654	637
				Amps	3.72	3.70	3.70	3.65	3.63	3.60	3.58	3.56	3.53	3.49	341

*For 115 and 460 volt units use 230 volt data shown above.

† Airflow becomes unstable at low static pressures.

▲ WARNING: Observe airflow operating limits if operating in area of airflow table shown in bold.

[] Designates Metric Conversions

Airflow Performance Data (For Models with TCQC “A” Coils)

Model Cabinet Size	Electric Heaters	Blower Motor			CFM [L/s] (Watts)/External Static Pressure—Inches W.C. [kPa]										
		Speed	Volts*		.00	.10 [.02]	.20 [.05]	.30 [.07]	.40 [.10]	.50 [.12]	.60 [.15]①	.70 [.17]①	.80 [.20]①	.90 [.22]①	1.0 [.25]①
17 with TCQC-3617 Coil	None	High	230	CFM	1281 [605]	1256 [593]	1226 [579]	1192 [563]	1155 [545]	1114 [526]	1069 [505]	1021 [482]	968 [457]	912 [430]	852 [402]
				RPM	798	820	841	863	884	906	927	949	970	992	1013
				Watts	460	453	445	437	428	418	408	397	385	373	361
				Amps	2.14	2.12	2.06	2.02	1.99	1.93	1.90	1.83	1.78	1.71	1.64
	4 (Max.)	High	230	CFM	1263 [596]	1241 [586]	1213 [572]	1181 [557]	1143 [539]	1101 [520]	1054 [497]	1001 [472]	944 [446]	882 [416]	815 [385]
				RPM	813	835	857	879	901	922	944	966	988	1010	1031
				Watts	447	443	437	430	421	411	399	385	370	354	336
				Amps	2.05	2.00	1.99	1.93	1.88	1.85	1.77	1.73	1.65	1.56	1.52
	None	High	208	CFM	1334 [630]	1312 [619]	1286 [607]	1255 [592]	1218 [575]	1177 [555]	1131 [534]	1080 [510]	1024 [483]	963 [454]	898 [424]
				RPM	842	860	878	896	915	933	951	969	988	1006	1024
				Watts	497	492	486	479	470	460	449	437	424	409	393
				Amps	2.55	2.52	2.49	2.44	2.39	2.35	2.29	2.23	2.17	2.11	2.03
	4 (Max.)	High	208	CFM	1328 [627]	1298 [613]	1263 [596]	1225 [578]	1183 [558]	1137 [537]	1087 [513]	1033 [488]	976 [461]	914 [431]	849 [401]
				RPM	841	860	880	899	918	937	956	976	995	1014	1033
				Watts	505	497	487	477	466	455	442	429	415	400	385
				Amps	2.56	2.51	2.48	2.40	2.36	2.34	2.26	2.21	2.15	2.06	2.01
21 with TCQC-4821 Coil	None	Low	230	CFM	1489 [703]	1469 [693]	1445 [682]	1417 [669]	1384 [653]	1347 [636]	1306 [616]	1259 [594]	1209 [571]	1154 [545]	1094 [516]
				RPM	657	685	712	740	768	795	823	850	878	906	933
				Watts	519	515	510	504	497	489	481	471	461	450	438
				Amps	2.34	2.30	2.26	2.23	2.20	2.17	2.15	2.10	2.03	1.99	1.93
	5 (Max.)	Low	230	CFM	1433 [676]	1414 [667]	1388 [655]	1355 [639]	1316 [621]	1270 [599]	1218 [575]	1159 [547]	1094 [516]	1022 [482]	944 [446]
				RPM	668	698	728	758	787	817	847	877	907	937	967
				Watts	511	508	504	499	492	483	473	462	449	435	419
				Amps	2.30	2.29	2.26	2.22	2.19	2.17	2.10	2.05	2.01	1.93	1.85
	None	Low	208	CFM	1497 [707]	1481 [699]	1458 [688]	1428 [674]	1391 [656]	1348 [636]	1297 [612]	1240 [585]	1177 [555]	1106 [522]	1029 [486]
				RPM	614	652	690	728	765	803	841	879	917	955	992
				Watts	550	546	540	534	526	517	507	496	484	471	456
				Amps	20.80	2.75	2.71	2.68	2.62	2.59	2.57	2.51	2.41	2.35	2.27
	5 (Max.)	Low	208	CFM	1447 [683]	1434 [677]	1413 [667]	1384 [653]	1348 [636]	1303 [615]	1252 [591]	1192 [563]	1125 [531]	1050 [496]	967 [456]
				RPM	686	716	745	774	803	832	862	891	920	949	978
				Watts	528	528	526	522	516	508	498	487	473	458	440
				Amps	2.62	2.58	2.53	2.51	2.48	2.43	2.39	2.33	2.26	2.21	2.08
	None	High	230	CFM	1669 [788]	1647 [777]	1619 [764]	1588 [749]	1551 [732]	1509 [712]	1463 [690]	1413 [667]	1357 [640]	1297 [612]	1232 [581]
				RPM	749	770	792	813	835	856	878	899	921	942	964
				Watts	627	622	616	609	601	592	582	570	557	543	528
				Amps	2.78	2.75	2.71	2.67	2.63	2.59	2.54	2.49	2.42	2.36	2.27
	5 (Max.)	High	230	CFM	1613 [761]	1597 [754]	1574 [743]	1543 [728]	1505 [710]	1459 [689]	1405 [663]	1345 [635]	1277 [603]	1201 [567]	1118 [528]
				RPM	758	782	805	829	853	877	901	925	949	973	997
				Watts	617	615	611	605	598	589	578	566	551	535	517
				Amps	2.77	2.75	2.71	2.69	2.65	2.59	2.55	2.48	2.42	2.36	2.28
	None	High	208	CFM	1656 [782]	1646 [777]	1630 [769]	1609 [759]	1581 [746]	1549 [731]	1510 [713]	1466 [692]	1417 [669]	1362 [643]	1301 [614]
				RPM	753	774	795	816	837	858	879	900	921	942	964
				Watts	655	653	650	645	639	631	621	610	597	583	568
				Amps	3.31	3.31	3.26	3.23	3.17	3.16	3.08	3.01	2.98	2.90	2.83
	5 (Max.)	High	208	CFM	1678 [792]	1658 [782]	1632 [770]	1598 [754]	1558 [735]	1510 [713]	1455 [687]	1394 [658]	1325 [625]	1249 [589]	1167 [551]
				RPM	787	808	829	851	872	893	914	935	957	978	999
				Watts	657	653	647	639	630	620	608	595	580	564	546
				Amps	3.24	3.20	3.16	3.12	3.05	3.01	2.96	2.90	2.81	2.72	2.61

*For 115 volt units use 230 volt data shown above.

① Operation of air handler is not recommended.

[] Designates Metric Conversions

Airflow Performance Data (For Models with TCQC “A” Coils), continued

Model Cabinet Size	Electric Heaters	Blower Motor			CFM [L/s] (Watts)/External Static Pressure—Inches W.C. [kPa]										
		Speed	Volts*		.00	.10 [.02]	.20 [.05]	.30 [.07]	.40 [.10]	.50 [.12]	.60 [.15]	.70 [.17]①	.80 [.20]①	.90 [.22]①	1.0 [.25]①
24 with TCQC-6024 Coil	None	High	230	CFM	1823 [860]	1815 [857]	1796 [848]	1767 [834]	1727 [815]	1677 [791]	1616 [763]	1544 [729]	1462 [690]	1369 [646]	1265 [597]
				RPM	667	698	728	759	789	820	850	881	912	942	973
				Watts	691	687	681	674	666	656	644	631	616	600	582
				Amps	3.00	3.00	3.02	2.95	2.94	2.91	2.87	2.84	2.82	2.79	2.73
	6 (Max.)	High	230	CFM	1810 [854]	1793 [846]	1766 [833]	1727 [815]	1678 [792]	1618 [764]	1546 [730]	1464 [691]	1371 [647]	1267 [598]	1152 [544]
				RPM	713	742	771	800	830	859	888	917	946	975	1004
				Watts	675	671	665	659	650	641	630	618	604	589	572
				Amps	3.01	2.97	2.98	2.93	2.92	2.88	2.84	2.82	2.78	2.74	2.67
	None	High	208	CFM	1866 [881]	1856 [876]	1836 [866]	1805 [852]	1764 [833]	1713 [808]	1652 [780]	1580 [746]	1498 [707]	1405 [663]	1303 [615]
				RPM	751	778	805	831	858	884	911	937	964	991	1017
				Watts	773	717	701	688	675	663	653	643	635	628	622
				Amps	3.80	3.70	3.46	3.43	3.37	3.36	3.35	3.34	3.27	3.29	3.22
	6 (Max.)	High	208	CFM	1866 [881]	1868 [882]	1838 [867]	1797 [848]	1746 [824]	1684 [795]	1611 [760]	1526 [720]	1431 [675]	1326 [626]	1209 [571]
				RPM	728	756	784	813	840	869	897	926	954	982	1010
				Watts	720	713	705	696	686	675	662	649	635	620	603
				Amps	3.53	3.50	3.46	3.45	3.40	3.39	3.35	3.32	3.26	3.23	3.18

*For 115 volt units use 230 volt data shown above.
 ① Operation of air handler is not recommended.

Blower Motor Electrical Data

Model Size/Elec. Designation	Voltage	Phase	Hertz	HP [W]	RPM	Speeds	Circuit Amps.	Minimum Circuit Ampacity	Maximum Circuit Protector
14AHA	115	1	60	1/6 [124]	900	2	3.2	4.0	15
17AHA	115	1	60	1/4 [186]	900	2	4.5	5.7	15
21AHA	115	1	60	1/3 [249]	900	2	7.2	9.0	15
24AHA	115	1	60	1/2 [373]	900	1	9.9	12.4	15
14AHJ	200/230	1	50/60	1/6 [124]	900	2	1.3	1.7	15
17AHJ	200/230	1	50/60	1/4 [186]	900	2	2.1	2.7	15
21AHJ	200/230	1	50/60	1/3 [249]	900	2	3.2	4.0	15
24AHJ	200/230	1	50/60	1/2 [373]	900	1	2.9	3.7	15

Electric Heat Electrical Data

Model Elec./kW Designation	Heater kW 208/240 V.	PH/Hz	Heater No./kW	Type Supply Circuit Single Circuit Multiple Circuit*	Circuit Amps.	Minimum Circuit Ampacity	Maximum Circuit Protector
J06	3.7/4.9	1/60	2/2.5	Single Circuit	20.9/23.6	26.2/29.5	30/30
J07	5.3/7.0	1/60	2/3.5	Single Circuit	29.2/32.9	36.5/41.1	40/45
J11	7.3/9.8	1/60	3/3.3	Single Circuit	38.4/43.8	48.0/54.8	50/60
J14	10.5/14.0	1/60	4/3.5	Single Circuit	53.8/61.6	67.3/77.0	70/80
				Multiple Ckt. 1	28.5/32.4	35.7/40.5	40/45
				Multiple Ckt. 2	25.3/29.2	31.7/36.5	35/40
J18	13.2/17.5	1/60	5/3.5	Single Circuit	66.4/76.2	83.0/95.3	90/100
				Multiple Ckt. 1	41.1/47.0	51.4/58.8	60/60
				Multiple Ckt. 2	25.3/29.2	31.7/36.5	35/40
J21	15.8/21.0	1/60	6/3.5	Single Circuit	79.0/90.8	98.8/113.5	100/125
				Multiple Ckt. 1	41.1/47.0	51.4/58.8	60/60
				Multiple Ckt. 2	37.9/43.8	47.4/54.8	50/60

- Supply circuit protective devices may be fused or “HACR” type circuit breakers.
- Largest motor load is included in single circuit and circuit 1 multiple circuit.
- If non-standard fuse size is specified, use next size larger standard fuse size.
- * Unit shipped from factory wired for single supply circuit. Unit may be field converted to multiple supply circuit.

[] Designates Metric Conversions

Copper Wire Size—AWG. (3% Voltage Drop)

S U P P L Y	L E N G T H	200 [61]	12	10	8	8	8	6	6	6	4	4	3	3	2	2	1	0	00
		150 [46]	12	10	10	10	8	8	6	6	6	4	4	3	3	2	1	0	00
		100 [30]	14	12	10	10	8	8	8	6	6	4	4	3	3	2	1	0	00
		50 [15]	14	12	10	10	8	8	8	6	6	4	4	3	3	2	1	0	00
W I R E	F E E T [m]		15	20	25	30	35	40	45	50	60	70	80	90	100	110	125	150	175
		<p align="center">SUPPLY CIRCUIT AMPACITY</p> <p align="center">NOTE: Wire based on copper conductors 75°C minimum rating. For more than 3 conductors in a raceway or cable, see N.E.C. for derating the ampacity of each conductor.</p>																	

Combustible Floor Base for Downflow Installations

Model Cabinet Size	Combustible Floor Base Model Number	Opening Front of Unit “W” Width-Inches [mm]	Opening Side of Unit “D” Depth-Inches [mm]
14 17 21 24	RXBB-AA	14 ³ / ₈ " [365]	20 ⁵ / ₈ " [524]

ACCESSORIES—KITS—PARTS

- **RXBB-AA** for downflow applications.
- **Jumper Bar Kit 2 Ckt. to 1 Ckt. RXBJ-A21** is used to convert single phase multiple two circuit units to a single supply circuit. Kit includes cover and screw for line side terminals.
- **Jumper Bar Kit 3 Ckt. to 1 Ckt. RXBJ-A31** is used to convert single phase multiple three circuit units to a single supply circuit. Kit includes cover and screw for line side terminals.
- **Note:** No jumper bar kit is available to convert three phase multiple two circuit units to a single supply circuit.
- If a factory supplied jumper bar for single supply circuit is removed from unit to make multiple supply circuits, the line side of the circuit breakers must be covered with finger safe covers. Each circuit breaker pole must be covered with a finger safe cover.
- **Finger Safe Circuit Breaker Cover**—Part Number 45-23203-01. One is required for each circuit breaker pole, if jumper bar is removed to provide multiple supply circuits.
- **Horizontal Drain Pan Accessories**
RXBD-CB
x50 = Bulk Pack.
- **RXBM-AA06**—Auxiliary horizontal drain pan. (All models except high heat).

• Replacement Filters

Model Cabinet Size	Filter Size In. [mm]	Part Number
14	12.75 x 21 [324 x 533]	54-23217-01
17	16.25 x 21 [413 x 533]	54-23217-02
21	19.75 x 21 [502 x 533]	54-23217-03
24	23.25 x 21 [591 x 533]	54-23217-04

[] Designates Metric Conversions

Before proceeding with installation, refer to installation instructions packaged with each model, as well as complying with all Federal, State, Provincial, and Local codes, regulations, and practices.

RUUD AIR CONDITIONING DIVISION

5600 Old Greenwood Road, Fort Smith, Arkansas 72908



"In keeping with its policy of continuous progress and product improvement, ICECO reserves the right to make changes without notice."