



XH12181A

Remote Heat Pump Unit

Specification Sheet



Specifications	
Cooling Capacity, BTUH (Nominal)	18,000
Compressor	
R.L. Amps	9.6
L.R. Amps	47.0
Condenser Fan Motor	
Horsepower	1/12
R.L. Amps	0.6
L.R. Amps	1.2
Liquid Line, Inches O.D.	3/8
Suction Line, Inches O.D.	5/8
Refrigerant Charge (oz.)	118
Design Subcooling Cooling Mode (°F)	11.0
Power Supply (volts)	208/230-60-1
Min. Circuit Ampacity	12.6
Max. Overcurrent Device (amps)	20.0
Electric Conduit Size (in.)	
Power Supply	1/2 or 3/4
Low Voltage	1/2
Approximate Shipping Weight (lbs.)	167

Standard Features

- Bi-Flow Liquid Line Filter Drier (Shipped Loose)
- Front Seating Service Valves
- Scroll Compressor
- 5-Minute Anti-Short Cycle Protection
- Automatic Reset High Pressure Switch
- Automatic Reset Loss Of Charge Switch
- Time/Temperature Defrost
- Heating Mode Thermostatic Expansion Valve (TXV) with Internal Check Valve
- Eight-Pole Condenser Fan Motor

Accessories

- Fossil Fuel Kit (FFK03A)
- Hard Start Kit (HSK10A)
- Freeze Protection Kit (FSK01A)
(Installed On Indoor Coil)

Heat Pump Performance Data

For ARI Performance Data: See the ARI Directory, Product Data Booklet (PDB), or the product Service Manual.

XH12181A / CHA18TCC / BBC36A2A@TAP A																
	Outdoor Ambient Temperature (°F)															
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0
ΔT	33	31	29	27	26	25	23	22	20	18	17	16	15	14	12	11
Amps	8.1	7.5	7.1	6.6	6.4	6.3	5.9	5.6	5.4	5.1	4.9	4.8	4.7	4.5	4.2	3.9
HI PR	250	240	230	220	215	211	203	195	186	178	171	167	164	158	152	145
LO PR	79	73	69	63	59	57	53	47	42	38	33	31	30	25	22	18

Above information is for nominal CFM and 70° F indoor dry bulb.

All pressures are PSIG.

All temperatures are °F.

NOTE: It is important to electrically connect the unit and properly size fuses/circuit breakers and wires in accordance with all national and/or local electrical codes. Use copper wire only.

NOTE: When mix-matching with restrictor orifice indoor coil, use either Aeroquip .054 diameter restrictor orifice B1443812 or Chatleff .055 diameter restrictor orifice 11076302.

Typical Cooling Performance Data



CAUTION

The installation must be adjusted to obtain a temperature rise within the range listed on the unit nameplate.

XH12181A / CHA18TCC / BBC36A2A@TAP A																																					
IDB*			Airflow			Outdoor Ambient Temperature (°F)																															
						65						75						85						95						105						115	
						Entering Indoor Wet Bulb Temperature (°F)																															
70	725	ΔT	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	15	12	-	18	15	12	-	17	14	11				
		AMPS	4.9	5.1	5.2	-	5.3	5.5	5.6	-	5.8	5.9	6.1	-	6.2	6.3	6.5	-	6.6	6.7	6.9	-	6.6	6.7	6.9	-	6.9	7.1	7.3	-	6.9	7.1	7.3				
		H1PR	140	150	159	-	157	169	178	-	178	192	203	-	203	219	231	-	229	246	260	-	229	246	260	-	253	272	287	-	253	272	287				
		LOPR	61	65	71	-	64	68	75	-	67	71	78	-	70	75	81	-	73	78	85	-	73	78	85	-	76	81	88	-	76	81	88				
	650	ΔT	19	16	12	-	19	16	12	-	19	16	12	-	19	17	13	-	19	16	12	-	19	16	12	-	18	15	12	-	18	15	12				
		AMPS	4.9	5.0	5.2	-	5.3	5.4	5.6	-	5.7	5.9	6.1	-	6.1	6.3	6.5	-	6.5	6.7	6.9	-	6.5	6.7	6.9	-	6.9	7.1	7.3	-	6.9	7.1	7.3				
75	725	H1PR	139	149	158	-	156	168	177	-	177	191	201	-	202	217	229	-	227	244	258	-	227	244	258	-	251	270	285	-	251	270	285				
		LOPR	60	64	70	-	64	68	74	-	66	71	77	-	70	74	81	-	73	78	85	-	73	78	85	-	75	80	88	-	75	80	88				
		ΔT	21	18	14	-	21	18	14	-	21	18	14	-	21	18	14	-	21	18	14	-	21	18	14	-	19	17	13	-	19	17	13				
		AMPS	4.8	4.9	5.0	-	5.2	5.3	5.4	-	5.6	5.7	5.9	-	6.0	6.1	6.3	-	6.3	6.5	6.7	-	6.3	6.5	6.7	-	6.7	6.9	7.1	-	6.7	6.9	7.1				
	650	H1PR	135	145	153	-	151	163	172	-	172	185	195	-	196	211	222	-	220	237	250	-	220	237	250	-	243	262	276	-	243	262	276				
		LOPR	59	62	68	-	62	66	72	-	64	68	75	-	68	72	78	-	71	75	82	-	71	75	82	-	73	78	85	-	73	78	85				
80	725	ΔT	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	19	18	15				
		AMPS	5.0	5.1	5.3	5.5	5.4	5.5	5.7	5.9	5.8	6.0	6.2	6.4	6.2	6.4	6.6	6.8	6.6	6.8	7.0	7.3	7.0	7.2	7.4	7.0	7.2	7.4	-	7.0	7.2	7.4					
		H1PR	141	152	160	167	158	171	180	188	180	194	205	214	205	221	233	243	231	249	262	274	255	275	290	255	275	290	-	255	275	290					
		LOPR	61	65	71	76	65	69	75	80	67	72	78	83	71	75	82	88	74	79	86	92	77	82	89	77	82	89	-	77	82	89					
	650	ΔT	22	20	16	11	22	20	17	11	22	20	17	11	22	20	17	11	22	20	16	11	22	20	16	11	20	19	15	-	20	19	15				
		AMPS	4.9	5.1	5.2	5.4	5.3	5.5	5.6	5.8	5.8	5.9	6.1	6.4	6.2	6.3	6.5	6.8	6.6	6.7	7.0	7.2	7.0	7.2	7.4	7.0	7.1	7.4	-	7.0	7.1	7.4					
85	725	H1PR	140	151	159	166	157	169	179	187	179	193	203	212	204	219	232	242	229	247	261	272	253	273	288	253	273	288	-	253	273	288					
		LOPR	61	65	71	75	64	69	75	80	67	71	78	83	70	75	82	87	74	78	86	91	76	81	89	76	81	89	-	76	81	89					
		ΔT	24	22	18	12	24	22	18	13	24	22	18	13	24	22	18	13	24	22	18	12	22	21	17	22	21	17	-	22	21	17					
		AMPS	4.8	4.9	5.1	5.3	5.2	5.3	5.5	5.7	5.6	5.8	6.0	6.2	6.0	6.2	6.4	6.6	6.4	6.5	6.8	7.0	6.8	6.9	7.2	6.8	6.9	7.2	-	6.8	6.9	7.2					
	650	H1PR	136	146	155	161	153	164	173	181	174	187	197	206	198	213	225	234	222	239	253	264	246	265	279	246	265	279	-	246	265	279					
		LOPR	59	63	69	73	62	66	73	77	65	69	75	80	68	73	79	84	71	76	83	88	74	79	86	74	79	86	-	74	79	86					
90	725	ΔT	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	22	21	18	22	21	18	-	22	21	18					
		AMPS	5.0	5.1	5.3	5.5	5.4	5.6	5.7	5.9	5.9	6.0	6.2	6.4	6.3	6.4	6.6	6.9	6.7	6.8	7.1	7.3	7.1	7.2	7.5	7.1	7.2	7.5	-	7.1	7.2	7.5					
		H1PR	143	154	162	169	160	172	182	190	182	196	207	216	207	223	236	246	233	251	265	276	258	277	293	258	277	293	-	258	277	293					
		LOPR	62	66	72	77	66	70	76	81	68	72	79	84	72	76	83	88	75	80	87	93	78	82	90	78	82	90	-	78	82	90					
	650	ΔT	24	23	20	16	24	23	20	16	24	23	20	16	25	24	21	16	24	23	20	16	22	22	19	22	22	19	-	22	22	19					
		AMPS	5.0	5.1	5.3	5.5	5.4	5.5	5.7	5.9	5.8	6.0	6.2	6.4	6.2	6.4	6.6	6.8	6.6	6.8	7.0	7.3	7.0	7.2	7.4	7.0	7.2	7.4	-	7.0	7.2	7.4					
95	725	H1PR	142	152	161	168	159	171	181	188	181	195	205	214	206	222	234	244	232	249	263	275	256	275	291	256	275	291	-	256	275	291					
		LOPR	62	66	72	76	65	69	76	80	68	72	79	84	71	76	83	88	74	79	86	92	77	82	89	77	82	89	-	77	82	89					
		ΔT	27	26	22	18	27	26	22	18	27	26	22	18	27	26	23	18	27	26	22	18	25	24	21	25	24	21	-	25	24	21					
		AMPS	4.9	5.0	5.1	5.3	5.2	5.4	5.5	5.7	5.7	5.8	6.0	6.2	6.1	6.2	6.4	6.7	6.5	6.6	6.8	7.1	6.8	7.0	7.2	6.8	7.0	7.2	-	6.8	7.0	7.2					
	650	H1PR	137	148	156	163	154	166	175	183	175	189	199	208	200	215	227	237	225	242	255	266	248	267	282	248	267	282	-	248	267	282					
		LOPR	60	64	69	74	63	67	73	78	66	70	76	81	69	73	80	85	72	77	84	90	75	79	85	75	79	85	-	75	79	85					