

### Rating Conditions

11.1 K Superheat  
Actual Subcooling  
35 °C Ambient Air Over

50 Hz Operation

### HEAT PUMP

### ZW61KAE-TFP

HCFC-407C - Dew Pt.  
COPELAND SCROLL®  
TFP 380-3-50

Condensing Temperature °C (Sat. Dew Pt. Pressure, bar)      Evaporating Temperature °C (Sat. Dew Pt. Pressure, bar)

	-25.0(1.7)	-20.0(2.1)	-15.0(2.6)	-10.0(3.2)	-5.0(3.9)	0.0(4.6)	5.0(5.5)	10.0(6.4)
65.0 C					13,900	15,300	17,100	19,300
(28.4) P					5,450	5,600	5,700	5,800
A					9.2	9.5	9.7	9.8
M					103	111	121.5	135
E					2.6	2.7	3.0	3.3
%					99.4	94.2	91.1	89.1
60.0 C				12,450	13,650	15,300	17,300	19,800
(25.3) P				4,720	4,900	5,050	5,150	5,250
A				8.0	8.4	8.7	8.8	8.9
M				88	94.5	104	116	130
E				2.6	2.8	3.0	3.4	3.8
%				101.4	95.3	91.7	89.3	87.5
55.0 C			11,050	12,100	13,550	15,400	17,600	20,200
(22.5) P			4,100	4,280	4,430	4,550	4,650	4,720
A			7.0	7.5	7.8	8.0	8.1	8.2
M			75	80.5	88.5	99	111.5	126
E			2.7	2.8	3.1	3.4	3.8	4.3
%			103.4	96.4	92.3	89.7	87.7	85.5
50.0 C		9,750	10,650	11,900	13,600	15,600	18,000	20,700
(19.9) P		3,570	3,740	3,880	4,010	4,110	4,200	4,280
A		6.0	6.6	7.0	7.2	7.4	7.4	7.5
M		63.5	68	75	84	95	107.5	122
E		2.7	2.8	3.1	3.4	3.8	4.3	4.8
%		104.8	97.0	92.5	89.8	87.8	85.6	82.7
45.0 C	8,550	9,250	10,350	11,850	13,700	15,900	18,400	21,100
(17.5) P	3,130	3,280	3,410	3,530	3,630	3,720	3,810	3,880
A	5.1	5.8	6.3	6.6	6.7	6.8	6.9	7.0
M	53.9	57.4	63	71	80.5	92	104.5	119
E	2.7	2.8	3.0	3.4	3.8	4.3	4.8	5.4
%	105.1	96.7	92.0	89.4	87.6	85.6	82.8	78.7
40.0 C	8,000	8,950	10,250	11,900	13,850	16,200	18,700	21,500
(15.4) P	2,900	3,010	3,110	3,210	3,290	3,370	3,450	3,540
A	5.0	5.6	5.9	6.1	6.3	6.3	6.4	6.6
M	48	52.7	59.5	68	78	89.5	102	116
E	2.8	3.0	3.3	3.7	4.2	4.8	5.4	6.1
%	94.9	90.4	88.2	86.8	85.2	82.7	78.9	73.2
35.0 C	7,600	8,350	10,250	12,000	14,100	16,400	19,000	21,900
(13.5) P	2,690	2,770	2,840	2,910	2,980	3,050	3,130	3,230
A	4.9	5.4	5.6	5.8	5.9	5.9	6.0	6.2
M	43.7	49.4	56.8	65.5	76	87	99.5	113
E	2.8	3.2	3.6	4.1	4.7	5.4	6.1	6.8
%	87.2	85.7	85.1	84.3	82.5	79.0	73.6	66.0
30.0 C	7,400	8,700	10,300	12,200	14,300	16,700	19,300	22,100
(11.8) P	2,490	2,530	2,570	2,620	2,690	2,760	2,840	2,950
A	4.8	5.1	5.3	5.4	5.5	5.6	5.7	6.0
M	40.7	47	54.8	64	74	85	97	109.5
E	3.0	3.4	4.0	4.6	5.3	6.1	6.8	7.5
%	81.6	82.2	82.6	81.8	79.1	74.2	66.8	57.0
20.0 C	7,350	8,850	10,550	12,500	14,700			
(8.8) P	2,060	2,050	2,050	2,080	2,130			
A	4.5	4.6	4.7	4.8	4.8			
M	37.2	44.2	52.1	60.8	70.5			
E	3.6	4.3	5.1	6.0	6.9			
%	75.5	78.2	78.5	75.7	69.6			

C: Capacity (W), P: Power (W), A: Current (Amps), M: Mass Flow (gm/s), E: COP, L: Liquid Temp. (°C)

Nominal Performance Values (±5%) based on 72 hours run-in. Subject to change without notice. Current @ 380 V