

**Rating Conditions**

18.3 °C Return Gas  
0 K Subcooling  
35 °C Ambient Air Over

60 Hz Operation

**MEDIUM  
TEMPERATURE**

**Blue Area Restrictions: 4.4°C Max.  
Return Gas Temp.**

**ZS33KAE-PFV**

HFC-404A

COPELAND SCROLL®

PFV 208/230-1-60

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

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

		-25.0 (2.5)	-20.0 (3)	-15.0 (3.6)	-10.0 (4.3)	-5.0 (5.1)	0.0 (6)	5.0 (7)	7.0 (7.5)
<b>60.0</b> (28.7)	<b>C</b>				6,570	7,590	8,690	9,910	10,450
	<b>P</b>				5,810	5,940	5,960	5,860	5,790
	<b>A</b>				26.2	26.8	27.0	26.6	26.2
	<b>M</b>				305	358	418	488	520
	<b>E %</b>				1.3	1.5	1.7	2.0	2.1
<b>55.0</b> (25.7)	<b>C</b>			5,690	6,820	8,010	9,310	10,800	11,450
	<b>P</b>			4,970	5,150	5,240	5,240	5,140	5,070
	<b>A</b>			22.3	23.1	23.6	23.7	23.2	22.8
	<b>M</b>			234	284	338	401	474	507
	<b>E %</b>			1.3	1.5	1.8	2.1	2.4	2.6
<b>45.0</b> (20.4)	<b>C</b>		5,160	6,430	7,790	9,310	11,050	13,000	13,900
	<b>P</b>		3,860	4,010	4,120	4,170	4,150	4,060	4,000
	<b>A</b>		17.4	18.0	18.5	18.8	18.7	18.2	17.9
	<b>M</b>		178	224	275	332	400	480	516
	<b>E %</b>		1.6	1.9	2.2	2.6	3.1	3.7	4.0
<b>40.0</b> (18.1)	<b>C</b>		5,610	6,950	8,430	10,100	12,050	14,300	15,250
	<b>P</b>		3,520	3,640	3,720	3,760	3,750	3,670	3,630
	<b>A</b>		15.9	16.4	16.8	17.0	16.9	16.5	16.2
	<b>M</b>		181	226	277	336	406	489	527
	<b>E %</b>		1.9	2.2	2.6	3.1	3.7	4.5	4.9
<b>30.0</b> (14.1)	<b>C</b>		6,550	8,030	9,750	11,750	14,100	16,850	18,050
	<b>P</b>		2,970	3,030	3,080	3,120	3,130	3,110	3,090
	<b>A</b>		13.5	13.8	14.0	14.2	14.3	14.1	13.9
	<b>M</b>		188	232	284	346	420	509	550
	<b>E %</b>		2.6	3.1	3.7	4.4	5.2	6.3	6.8
<b>25.0</b> (12.4)	<b>C</b>		6,950	8,500	10,350	12,500	15,050	18,050	
	<b>P</b>		2,720	2,760	2,810	2,850	2,890	2,900	
	<b>A</b>		12.4	12.5	12.8	13.1	13.2	13.3	
	<b>M</b>		189	233	286	349	425	517	
	<b>E %</b>		3.0	3.6	4.3	5.1	6.1	7.2	
<b>20.0</b> (10.8)	<b>C</b>		7,240	8,860	10,800	13,150	15,900		
	<b>P</b>		2,460	2,490	2,540	2,600	2,670		
	<b>A</b>		11.1	11.3	11.6	11.9	12.3		
	<b>M</b>		188	232	285	349	427		
	<b>E %</b>		3.4	4.1	5.0	5.9	6.9		
<b>15.0</b> (9.4)	<b>C</b>		7,380	9,070	11,150	13,600			
	<b>P</b>		2,180	2,200	2,260	2,350			
	<b>A</b>		9.7	9.9	10.3	10.8			
	<b>M</b>		183	227	280	346			
	<b>E %</b>		3.9	4.8	5.7	6.7			
<b>5.0</b> (7)	<b>C</b>		6,980	8,800					
	<b>P</b>		1,475	1,515					
	<b>A</b>		6.1	6.4					
	<b>M</b>		160	203					
	<b>E %</b>		5.5	6.8					

**C: Capacity (kcal/hr), P: Power (W), A: Current (Amps), M: Mass Flow (kg/hr), E: COP, %: Isentropic Efficiency (%)**

Nominal Performance Values (±5%) based on 72 hours run-in. Subject to change without notice. Current @ 230 V