

**RATING CONDITIONS**

65 °F Return Gas  
 0 °F Subcooling  
 95 °F Ambient Air Over  
 60 Hz Operation

**MEDIUM TEMPERATURE**

Bold Area Restrictions: 50 °F Max. Return Gas Temp.

**2DA3R89K0-TFD**

COPELAMETIC® HCFC-22  
 DISCUS® COMPRESSOR  
 TFD 460-3-60

**Evaporating Temperature °F (Sat Dew Pt Pressure, psig)**

-10(16) 0(24) 5(28) 10(33) 15(38) 20(43) 25(49) 30(55) 35(61) 40(68) 45(76)

Condensing Temperature °F (Sat Dew Pt Pressure, psig)	Evaporating Temperature °F (Sat Dew Pt Pressure, psig)										
	-10(16)	0(24)	5(28)	10(33)	15(38)	20(43)	25(49)	30(55)	35(61)	40(68)	45(76)
140 (337)C				35500	42100	48800	55500	63000	70500	78500	87000
P				6400	6950	7450	7950	8350	8750	9100	9400
A				10.3	11	11.6	12.1	12.7	13.1	13.6	13.9
M				570	680	790	905	1030	1160	1300	1450
E				5.6	6.1	6.5	7	7.5	8.1	8.6	9.3
%				67.4	68.9	69.8	70.4	70.7	70.9	70.8	70.6
130 (297)C			<b>34000</b>	40600	47300	54000	61500	69000	77000	85500	95000
P			<b>5750</b>	6250	6750	7200	7600	7950	8250	8500	8750
A			<b>9.6</b>	10.2	10.7	11.2	11.7	12.1	12.5	12.8	13.1
M			<b>520</b>	620	725	835	950	1070	1200	1350	1500
E			<b>5.9</b>	6.5	7	7.5	8.1	8.7	9.4	10.1	10.8
%			<b>67.9</b>	69.4	70.3	70.9	71.2	71.4	71.4	71.2	70.9
120 (260)C		<b>32200</b>	<b>38700</b>	45300	52000	59500	67000	75000	83500	93000	103000
P		<b>5100</b>	<b>5650</b>	6100	6500	6850	7200	7450	7700	7900	8050
A		<b>8.9</b>	<b>9.4</b>	10	10.4	10.8	11.2	11.5	11.8	12.1	12.3
M		<b>466</b>	<b>560</b>	660	760	870	985	1110	1240	1380	1540
E		<b>6.3</b>	<b>6.9</b>	7.4	8	8.7	9.3	10.1	10.9	11.8	12.7
%		<b>68</b>	<b>69.5</b>	70.5	71	71.3	71.5	71.5	71.4	71.1	70.7
110 (226)C	<b>24000</b>	<b>36500</b>	<b>43000</b>	49800	57000	64500	72500	81000	90000	99500	110000
P	<b>4000</b>	<b>5050</b>	<b>5450</b>	5850	6200	6450	6700	6900	7100	7200	7300
A	<b>7.7</b>	<b>8.8</b>	<b>9.3</b>	9.7	10	10.4	10.6	10.9	11.1	11.2	11.4
M	<b>330</b>	<b>505</b>	<b>595</b>	690	790	900	1010	1140	1270	1420	1580
E	<b>6</b>	<b>7.3</b>	<b>7.9</b>	8.5	9.2	9.9	10.8	11.7	12.7	13.8	15.1
%	<b>65.6</b>	<b>69.5</b>	<b>70.3</b>	70.8	71.1	71.3	71.3	71.2	71	70.6	70
100 (196)C	<b>28200</b>	<b>40600</b>	<b>47100</b>	54000	61500	69000	77500	86500	96000	106000	118000
P	<b>4010</b>	<b>4880</b>	<b>5250</b>	5550	5800	6050	6200	6350	6450	6500	6500
A	<b>7.7</b>	<b>8.6</b>	<b>9</b>	9.3	9.6	9.8	10	10.2	10.3	10.4	10.4
M	<b>370</b>	<b>535</b>	<b>625</b>	720	820	925	1040	1170	1300	1450	1610
E	<b>7</b>	<b>8.3</b>	<b>9</b>	9.7	10.6	11.5	12.5	13.6	14.9	16.4	18
%	<b>68</b>	<b>70</b>	<b>70.4</b>	70.6	70.7	70.7	70.7	70.5	70.1	69.5	68.6
90 (168)C	<b>32100</b>	<b>44400</b>	<b>51000</b>	58000	65500	73500	82500	92000	102000	113000	125000
P	<b>3960</b>	<b>4680</b>	<b>4970</b>	5200	5400	5550	5650	5700	5750	5750	5700
A	<b>7.7</b>	<b>8.4</b>	<b>8.7</b>	8.9	9.1	9.3	9.4	9.5	9.5	9.5	9.5
M	<b>404</b>	<b>565</b>	<b>650</b>	740	840	945	1060	1190	1330	1480	1640
E	<b>8.1</b>	<b>9.5</b>	<b>10.3</b>	11.2	12.2	13.3	14.6	16.1	17.8	19.7	21.9
%	<b>69.1</b>	<b>69.8</b>	<b>69.8</b>	69.8	69.8	69.7	69.5	69.1	68.5	67.6	66.2
70 (121)C	<b>39100</b>	<b>51500</b>	<b>58000</b>	65500	73500	82500	92000	103000	114000	126000	140000
P	<b>3710</b>	<b>4150</b>	<b>4300</b>	4400	4460	4470	4440	4380	4280	4150	3990
A	<b>7.5</b>	<b>7.9</b>	<b>8</b>	8.1	8.1	8.2	8.1	8.1	8	7.9	7.7
M	<b>458</b>	<b>605</b>	<b>685</b>	775	875	980	1100	1230	1370	1530	1700
E	<b>10.5</b>	<b>12.4</b>	<b>13.5</b>	14.9	16.5	18.5	20.7	23.4	26.6	30.5	35.1
%	<b>68.2</b>	<b>67.2</b>	<b>66.8</b>	66.5	66.1	65.6	64.9	63.8	62.1	59.6	55.8
60 (102)C	<b>42300</b>	<b>54500</b>	<b>61500</b>	69000	77500	87000	97000	108000	120000		
P	<b>3530</b>	<b>3830</b>	<b>3910</b>	3950	3940	3890	3800	3670	3520		
A	<b>7.3</b>	<b>7.6</b>	<b>7.6</b>	7.7	7.7	7.6	7.5	7.4	7.2		
M	<b>479</b>	<b>620</b>	<b>705</b>	790	890	1000	1120	1250	1400		
E	<b>12</b>	<b>14.2</b>	<b>15.7</b>	17.5	19.7	22.3	25.5	29.4	34.1		
%	<b>66.5</b>	<b>64.9</b>	<b>64.2</b>	63.6	63	62	60.6	58.6	55.6		
50 (84)C	<b>45400</b>	<b>57500</b>	<b>65000</b>	72500	81500	91000	102000	113000			
P	<b>3310</b>	<b>3480</b>	<b>3500</b>	3470	3400	3280	3130	2950			
A	<b>7.2</b>	<b>7.3</b>	<b>7.3</b>	7.3	7.2	7.1	6.9	6.8			
M	<b>498</b>	<b>635</b>	<b>715</b>	805	905	1010	1140	1270			
E	<b>13.7</b>	<b>16.6</b>	<b>18.5</b>	21	24	27.7	32.4	38.3			
%	<b>63.8</b>	<b>61.6</b>	<b>60.6</b>	59.6	58.3	56.6	53.9	50			

Nominal Performance Values (±5%) based on 72 hours run-in. Subject to change without notice. Current @ 460 V

**C:Capacity(Btu/hr), P:Power(Watts), A:Current(Amps), M:Mass Flow(lbs/hr), E:EER(Btu/Watt-hr), %:Isentropic Efficiency(%)**