

# CR18KQ-PFV

HCFC, R-22, Mid Point, 60 Hz, 1 - Phase, 208/230 V

High Temperature

**Production Status:** Available for sale to all U.S. customers. Please check with your local Emerson Climate Technologies representative for international availability.



## Performance

Evap(°F)/Cond(°F)	45/130	20/120
RG(°F)/Liq(°F)	65/130	65/120
Capacity (Btu/hr):	17100	9000
Power (Watts):	1830	1330
Current (Amps):	8	5.9
EER (Btu/Wh):	9.3	6.7
Mass Flow (lbs/hr):	270.0	132.0
Sound Power(dBA):	70 Ave	75 Max
Vibration (mils(peak-peak)):	2.0 Ave	3.0 Max
Record Date:	2002-07-10	

## Mechanical

Number of Cylinders:	2	Displ (in <sup>3</sup> /Rev):	2.227
Bore Size (in):	1.656	Displ (ft <sup>3</sup> /hr):	270.6414
Stroke (in):	0.517		
Overall Length (in):	9.312	Mounting Length (in):	7.5
Overall Width (in):	8.938	Mounting Width(in):	7.5
Overall Height (in):	13.375	Mounting Height (in):	13.687*
Suction Size (in):	5/8	Stub	
Discharge Size (in):	3/8	Stub	
Initial Oil Charge (oz):	45		
Oil Recharge (oz):	43		
Net Weight (lbs):	61.0		
Internal Free Volume (in <sup>3</sup> ):	334.0		
HorsePower			
* Overall compressor height on Copeland Brand Product's specified mounting dimensions			

## Electrical

LRA-High*:	41.0	MCC (Amps):	12.6	UL File No.:
LRA-Half Winding:		RPM:		UL File Date:
LRA-Low*:		Max Operating Current:		
RLA(=MCC/1.4; use for contactor selection):	9			
RLA (=MCC/1.56; use for breaker & wire size selection):	8.1			
*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.				

## Alternate Applications

Refrigerant	Frequency(Hz)	Phase	Voltage	Application
R-22 HCFC	50	1	200	Air Conditioning
R-22 HCFC	50	1	200	High Temperature
R-407C HFC	50	1	200	
R-22 HCFC	60	1	208/230	Air Conditioning
R-407C HFC	60	1	208/230	

# CR18KQ-TF5



HCFC, R-22, Mid Point, 60 Hz, 3 - Phase, 200/230 V

High Temperature

**Production Status:** Available for sale to all U.S. customers. Please check with your local Emerson Climate Technologies representative for international availability.

## Performance

Evap(°F)/Cond(°F)	45/130	20/120
RG(°F)/Liq(°F)	65/130	65/120
Capacity (Btu/hr):	16900	8590
Power (Watts):	1740	1220
Current (Amps):	5.4	4.3
EER (Btu/Wh):	9.7	7.0
Mass Flow (lbs/hr):	268.0	125.0
Sound Power(dBA):	70 Ave 75 Max	
Vibration (mils(peak-peak)):	2.0 Ave 3.0 Max	
Record Date:	2002-10-08	

## Mechanical

Number of Cylinders:	2	Displ (in <sup>3</sup> /Rev):	2.227
Bore Size (in):	1.656	Displ (ft <sup>3</sup> /hr):	270.6414
Stroke (in):	0.517		
Overall Length (in):	9.312	Mounting Length (in):	7.5
Overall Width (in):	8.938	Mounting Width(in):	7.5
Overall Height (in):	13.375	Mounting Height (in):	13.687*
Suction Size (in):	5/8 Stub		
Discharge Size (in):	3/8 Stub		
Initial Oil Charge (oz):	45		
Oil Recharge (oz):	43		
Net Weight (lbs):	61.0		
Internal Free Volume (in <sup>3</sup> ):			
HorsePower			
* Overall compressor height on Copeland Brand Product's specified mounting dimensions			

## Electrical

LRA-High*:	49.0	MCC (Amps):	8.5	UL File No.:
LRA-Half Winding:		RPM:		UL File Date:
LRA-Low*:		Max Operating Current:		
RLA(=MCC/1.4; use for contactor selection):	6.1			
RLA (=MCC/1.56; use for breaker & wire size selection):	5.4			
*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.				

## Alternate Applications

Refrigerant	Frequency(Hz)	Phase	Voltage	Application
R-22 HCFC	60	3	200/230	Air Conditioning
R-22 HCFC	50	3	200/240	Air Conditioning
R-22 HCFC	50	3	200/240	High Temperature

# CR24KQ-PFV

HCFC, R-22, Mid Point, 60 Hz, 1 - Phase, 208/230 V

High Temperature

**Production Status:** Available for sale to all U.S. customers. Please check with your local Emerson Climate Technologies representative for international availability.



## Performance

Evap(°F)/Cond(°F)	45/130	20/120
RG(°F)/Liq(°F)	65/130	65/120
Capacity (Btu/hr):	22100	11900
Power (Watts):	2380	1810
Current (Amps):	11.9	9.7
EER (Btu/Wh):	9.3	6.6
Mass Flow (lbs/hr):	349.0	175.0
Sound Power(dBA):	70 Ave 75 Max	
Vibration (mils(peak-peak)):	2.0 Ave 3.0 Max	
Record Date:	2002-10-08	

## Mechanical

Number of Cylinders:	2	Displ (in <sup>3</sup> /Rev):	2.701
Bore Size (in):	1.656	Displ (ft <sup>3</sup> /hr):	328.2247
Stroke (in):	0.627		
Overall Length (in):	9.312	Mounting Length (in):	7.5
Overall Width (in):	8.938	Mounting Width(in):	7.5
Overall Height (in):	13.25	Mounting Height (in):	13.437*
Suction Size (in):	5/8 Stub		
Discharge Size (in):	3/8 Stub		
Initial Oil Charge (oz):	45		
Oil Recharge (oz):	43		
Net Weight (lbs):	64.0		
Internal Free Volume (in <sup>3</sup> ):	330.0		
HorsePower			
* Overall compressor height on Copeland Brand Product's specified mounting dimensions			

## Electrical

LRA-High*:	70.5	MCC (Amps):	19.0	UL File No.:
LRA-Half Winding:		RPM:		UL File Date:
LRA-Low*:		Max Operating Current:		
RLA(=MCC/1.4; use for contactor selection):	13.6			
RLA (=MCC/1.56; use for breaker & wire size selection):	12.2			
*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.				

## Alternate Applications

Refrigerant	Frequency(Hz)	Phase	Voltage	Application
R-22 HCFC	50	1	200	Air Conditioning
R-22 HCFC	50	1	200	High Temperature
R-22 HCFC	60	1	208/230	Air Conditioning

# CR24KQ-TF5



HCFC, R-22, Mid Point, 60 Hz, 3 - Phase, 200/230 V

High Temperature

**Production Status:** Available for sale to all U.S. customers. Please check with your local Emerson Climate Technologies representative for international availability.

## Performance

Evap(°F)/Cond(°F)	45/130	20/120
RG(°F)/Liq(°F)	65/130	65/120
Capacity (Btu/hr):	21600	12300
Power (Watts):	2310	1680
Current (Amps):	6.7	5.3
EER (Btu/Wh):	9.4	7.3
Mass Flow (lbs/hr):	341.0	180.0
Sound Power(dBA):	70 Ave 75 Max	
Vibration (mils(peak-peak)):	2.0 Ave 3.0 Max	
Record Date:	2002-10-08	

## Mechanical

Number of Cylinders:	2	Displ (in <sup>3</sup> /Rev):	2.701
Bore Size (in):	1.656	Displ (ft <sup>3</sup> /hr):	328.2247
Stroke (in):	0.627		
Overall Length (in):	9.312	Mounting Length (in):	7.5
Overall Width (in):	8.938	Mounting Width(in):	7.5
Overall Height (in):	13.375	Mounting Height (in):	13.687*
Suction Size (in):	5/8 Stub		
Discharge Size (in):	3/8 Stub		
Initial Oil Charge (oz):	45		
Oil Recharge (oz):	43		
Net Weight (lbs):	60.0		
Internal Free Volume (in <sup>3</sup> ):			
HorsePower			
* Overall compressor height on Copeland Brand Product's specified mounting dimensions			

## Electrical

LRA-High*:	51.0	MCC (Amps):	10.5	UL File No.:
LRA-Half Winding:		RPM:		UL File Date:
LRA-Low*:		Max Operating Current:		
RLA(=MCC/1.4; use for contactor selection):	7.5			
RLA (=MCC/1.56; use for breaker & wire size selection):	6.7			
*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.				

## Alternate Applications

Refrigerant	Frequency(Hz)	Phase	Voltage	Application
R-22 HCFC	60	3	200/230	Air Conditioning
R-22 HCFC	50	3	200/240	Air Conditioning
R-22 HCFC	50	3	200/240	High Temperature

# CR37KQ-PFV



HCFC, R-22, 60 Hz, 1 - Phase, 208/230 V

High Temperature

**Production Status:** Available for sale to all U.S. customers. Please check with your local Emerson Climate Technologies representative for international availability.

## Performance

Evap(°F)/Cond(°F)	45/130	20/120
RG(°F)/Liq(°F)	65/0	65/0
Capacity (Btu/hr):	33969	19023
Power (Watts):	3631	2712
Current (Amps):	0	0
EER (Btu/Wh):	9.4	7.0
Mass Flow (lbs/hr):	539.0	279.0
Sound Power(dBA):	75 Ave 80 Max	
Vibration (mils(peak-peak)):	2.2 Ave 3.2 Max	
Record Date:		

## Mechanical

Number of Cylinders:	2	Displ (in^3/Rev):	4.061
Bore Size (in):	1.96	Displ (ft^3/hr):	493.5263
Stroke (in):	0.673		
Overall Length (in):	9.25	Mounting Length (in):	7.5
Overall Width (in):	9.25	Mounting Width(in):	7.5
Overall Height (in):	13.625	Mounting Height (in):	14.0*
Suction Size (in):	3/4 Stub		
Discharge Size (in):	3/8 Stub		
Initial Oil Charge (oz):	40		
Oil Recharge (oz):	38		
Net Weight (lbs):	65.0		
Internal Free Volume (in^3):	345.0		
HorsePower			
* Overall compressor height on Copeland Brand Product's specified mounting grommets			

## Electrical

LRA-High*:	100	MCC (Amps):	26	UL File No.:
LRA-Half Winding:		RPM:		UL File Date:
LRA-Low*:		Max Operating Current:		
RLA(=MCC/1.4; use for contactor selection):	18.6			
RLA (=MCC/1.56; use for breaker & wire size selection):	16.7			
*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.				

## Alternate Applications

Refrigerant	Frequency(Hz)	Phase	Voltage	Application
R-22 HCFC	50	1	200	
R-22 HCFC	50	1	200	Air Conditioning
R-22 HCFC	50	1	200	High Temperature
R-22 HCFC	60	1	208/230	
R-22 HCFC	60	1	208/230	Air Conditioning

# CR37KQ-TF5



HCFC, R-22, Mid Point, 60 Hz, 3 - Phase, 200/230 V

High Temperature

**Production Status:** Available for sale to all U.S. customers. Please check with your local Emerson Climate Technologies representative for international availability.

## Performance

Evap(°F)/Cond(°F)	45/130	20/120
RG(°F)/Liq(°F)	65/130	65/120
Capacity (Btu/hr):	33600	19800
Power (Watts):	3500	2570
Current (Amps):	10.2	8.1
EER (Btu/Wh):	9.6	7.7
Mass Flow (lbs/hr):	530.0	289.0
Sound Power(dBA):	75 Ave 80 Max	
Vibration (mils(peak-peak)):	2.2 Ave 3.2 Max	
Record Date:	2002-10-08	

## Mechanical

Number of Cylinders:	2	Displ (in <sup>3</sup> /Rev):	4.061
Bore Size (in):	1.96	Displ (ft <sup>3</sup> /hr):	493.5263
Stroke (in):	0.673		
Overall Length (in):	9.25	Mounting Length (in):	7.5
Overall Width (in):	9.25	Mounting Width(in):	7.5
Overall Height (in):	14.25	Mounting Height (in):	14.625*
Suction Size (in):	3/4	Stub	
Discharge Size (in):	3/8	Stub	
Initial Oil Charge (oz):	40		
Oil Recharge (oz):	38		
Net Weight (lbs):	66.0		
Internal Free Volume (in <sup>3</sup> ):	375.0		
HorsePower			
* Overall compressor height on Copeland Brand Product's specified mounting dimensions			

## Electrical

LRA-High*:	85.0	MCC (Amps):	15.5	UL File No.:
LRA-Half Winding:		RPM:		UL File Date:
LRA-Low*:		Max Operating Current:		
RLA(=MCC/1.4; use for contactor selection):	11.1			
RLA (=MCC/1.56; use for breaker & wire size selection):	9.9			
*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.				

## Alternate Applications

Refrigerant	Frequency(Hz)	Phase	Voltage	Application
R-22 HCFC	60	3	200/230	
R-22 HCFC	60	3	200/230	Air Conditioning
R-22 HCFC	50	3	200/240	
R-22 HCFC	50	3	200/240	Air Conditioning
R-22 HCFC	50	3	200/240	High Temperature

HCFC, R-22, Mid Point, 60 Hz, 3 - Phase, 380/460 V

High Temperature

**Production Status:** Available for sale to all U.S. customers. Please check with your local Emerson Climate Technologies representative for international availability.

### Performance

Evap(°F)/Cond(°F)	45/130	20/120
RG(°F)/Liq(°F)	65/130	65/120
Capacity (Btu/hr):	33600	19800
Power (Watts):	3500	2570
Current (Amps):	5.1	4.1
EER (Btu/Wh):	9.6	7.7
Mass Flow (lbs/hr):	530.0	289.0
Sound Power(dBA):	75 Ave 80 Max	
Vibration (mils(peak-peak)):	2.2 Ave 3.2 Max	
Record Date:	1998-11-25	

### Mechanical

Number of Cylinders:	2	Displ (in^3/Rev):	4.061
Bore Size (in):	1.96	Displ (ft^3/hr):	493.5263
Stroke (in):	0.673		
Overall Length (in):	9.25	Mounting Length (in):	7.5
Overall Width (in):	9.25	Mounting Width(in):	7.5
Overall Height (in):	14.25	Mounting Height (in):	14.625*
Suction Size (in):	3/4 Stub		
Discharge Size (in):	3/8 Stub		
Initial Oil Charge (oz):	40		
Oil Recharge (oz):	38		
Net Weight (lbs):	66.0		
Internal Free Volume (in^3):	375.0		
HorsePower			
* Overall compressor height on Copeland Brand Product's specified mounting grommets			

### Electrical

LRA-High*:	39.0	MCC (Amps):	7.8	UL File No.:
LRA-Half Winding:		6.9 RPM:		UL File Date:
LRA-Low*:		Max Operating Current:		
RLA(=MCC/1.4; use for contactor selection):	5.6			
RLA (=MCC/1.56; use for breaker & wire size selection):	5			
*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.				

### Alternate Applications

Refrigerant	Frequency(Hz)	Phase	Voltage	Application
R-22 HCFC	50	3	380/420	
R-22 HCFC	50	3	380/420	Air Conditioning
R-22 HCFC	50	3	380/420	High Temperature
R-22 HCFC	60	3	380/460	
R-22 HCFC	60	3	380/460	Air Conditioning

HCFC, R-22, Mid Point, 60 Hz, 1 - Phase, 208/230 V

Air Conditioning

Production Status: Non U.S. model with restricted sales - Contact your Emerson

Climate Technologies Representative.

## Performance

Evap(°F)/Cond(°F)	45/130	45/100
RG(°F)/Liq(°F)	65/115	65/85
Capacity (Btu/hr):	61100	77500
Power (Watts):	6310	5050
Current (Amps):	28.1	22.7
EER (Btu/Wh):	9.7	15.3
Mass Flow (lbs/hr):	895.0	995.0
Sound Power(dBA):	80 Ave	85 Max
Vibration (mils(peak-peak)):	2.4 Ave	3.4 Max
Record Date:	1995-03-24	

## Mechanical

Number of Cylinders:	2	Displ (in <sup>3</sup> /Rev):	6.221
Bore Size (in):	1.96	Displ (ft <sup>3</sup> /hr):	756.0560
Stroke (in):	1.031		
Overall Length (in):	11.38	Mounting Length (in):	7.5
Overall Width (in):	9.38	Mounting Width(in):	7.5
Overall Height (in):	16.13	Mounting Height (in):	16.5*
Suction Size (in):	7/8	Stub	
Discharge Size (in):	1/2	Stub	
Initial Oil Charge (oz):	70		
Oil Recharge (oz):	66		
Net Weight (lbs):	91.0		
Internal Free Volume (in <sup>3</sup> ):	547.0		
HorsePower			
* Overall compressor height on Copeland Brand Product's specified mounting dimensions			

## Electrical

LRA-High*:	142.0	MCC (Amps):	48.0	UL File No.:	
LRA-Half Winding:		RPM:		UL File Date:	28-Dec-1984
LRA-Low*:		Max Operating Current:			
RLA(=MCC/1.4; use for contactor selection):	34.3				
RLA (=MCC/1.56; use for breaker & wire size selection):	30.8				
*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.					

## Alternate Applications

Refrigerant	Frequency(Hz)	Phase	Voltage	Application
R-22 HCFC	50	1	200	Air Conditioning
R-502 CFC	50	1	200	
R-502 CFC	60	1	208/230	



HCFC, R-22, Mid Point, 60 Hz, 3 - Phase, 200/230 V

Air Conditioning

Production Status: Non U.S. model with restricted sales - Contact your Emerson

Climate Technologies Representative.

## Performance

Evap(°F)/Cond(°F)	45/130	45/100
RG(°F)/Liq(°F)	65/115	65/85
Capacity (Btu/hr):	61500	77200
Power (Watts):	6210	4870
Current (Amps):	18	15.1
EER (Btu/Wh):	9.9	15.9
Mass Flow (lbs/hr):	900.0	995.0
Sound Power(dBA):	80 Ave	85 Max
Vibration (mils(peak-peak)):	2.4 Ave	3.4 Max
Record Date:	1995-03-24	

## Mechanical

Number of Cylinders:	2	Displ (in <sup>3</sup> /Rev):	6.221
Bore Size (in):	1.96	Displ (ft <sup>3</sup> /hr):	756.0560
Stroke (in):	1.031		
Overall Length (in):	11.38	Mounting Length (in):	7.5
Overall Width (in):	9.375	Mounting Width(in):	7.5
Overall Height (in):	16.13	Mounting Height (in):	16.5*
Suction Size (in):	7/8	Stub	
Discharge Size (in):	1/2	Stub	
Initial Oil Charge (oz):	70		
Oil Recharge (oz):	66		
Net Weight (lbs):	90.0		
Internal Free Volume (in <sup>3</sup> ):	560.0		
HorsePower			
* Overall compressor height on Copeland Brand Product's specified mounting dimensions			

## Electrical

LRA-High*:	130.0	MCC (Amps):	30.0	UL File No.:	
LRA-Half Winding:		RPM:		UL File Date:	28-Dec-1984
LRA-Low*:		Max Operating Current:			
RLA(=MCC/1.4; use for contactor selection):	21.4				
RLA (=MCC/1.56; use for breaker & wire size selection):	19.2				
*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.					

## Alternate Applications

Refrigerant	Frequency(Hz)	Phase	Voltage	Application
R-502 CFC	60	3	200/230	Air Conditioning
R-22 HCFC	50	3	200/240	
R-502 CFC	50	3	200/240	

HCFC, R-22, Mid Point, 60 Hz, 3 - Phase, 380/460 V

Air Conditioning

Production Status: Non U.S. model with restricted sales - Contact your Emerson

Climate Technologies Representative.

### Performance

Evap(°F)/Cond(°F)	45/130	45/100
RG(°F)/Liq(°F)	65/115	65/85
Capacity (Btu/hr):	61500	77200
Power (Watts):	6210	4870
Current (Amps):	9	7.6
EER (Btu/Wh):	9.9	15.9
Mass Flow (lbs/hr):	900.0	995.0
Sound Power(dBA):	80 Ave	85 Max
Vibration (mils(peak-peak)):	2.4 Ave	3.4 Max
Record Date:	1995-03-24	

### Mechanical

Number of Cylinders:	2	Displ (in <sup>3</sup> /Rev):	6.221
Bore Size (in):	1.96	Displ (ft <sup>3</sup> /hr):	756.0560
Stroke (in):	1.031		
Overall Length (in):	11.38	Mounting Length (in):	7.5
Overall Width (in):	9.375	Mounting Width(in):	7.5
Overall Height (in):	16.13	Mounting Height (in):	16.5*
Suction Size (in):	7/8	Stub	
Discharge Size (in):	1/2	Stub	
Initial Oil Charge (oz):	70		
Oil Recharge (oz):	66		
Net Weight (lbs):	82.0		
Internal Free Volume (in <sup>3</sup> ):	560.0		
HorsePower			
* Overall compressor height on Copeland Brand Product's specified mounting dimensions			

### Electrical

LRA-High*:	65.0	MCC (Amps):	13.5	UL File No.:	
LRA-Half Winding:		RPM:		UL File Date:	28-Dec-1984
LRA-Low*:		Max Operating Current:			
RLA(=MCC/1.4; use for contactor selection):	9.6				
RLA (=MCC/1.56; use for breaker & wire size selection):	8.7				
*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.					

### Alternate Applications

Refrigerant	Frequency(Hz)	Phase	Voltage	Application
R-22 HCFC	50	3	380/420	Air Conditioning

# QR15M1-TFD



HCFC, R-22, Mid Point, 60 Hz, 3 - Phase, 460 V

Air Conditioning

**Production Status:** This model is obsolete and is no longer in production for both OEM and service replacement. Please contact Customer Service about possible replacement models.

## Performance

Evap(°F)/Cond(°F)	45/130	45/100
RG(°F)/Liq(°F)	65/115	65/85
Capacity (Btu/hr):	142000	178000
Power (Watts):	15800	13900
Current (Amps):	22.7	20.3
EER (Btu/Wh):	9.0	12.8
Mass Flow (lbs/hr):	2080.0	2290.0
Sound Power(dBA):	0 Ave 0 Max	
Vibration (mils(peak-peak)):	0.0 Ave 0.0 Max	
Record Date:	2004-05-28	

## Mechanical

Number of Cylinders:	4	Displ (in <sup>3</sup> /Rev):	16.243
Bore Size (in):	2.188	Displ (ft <sup>3</sup> /hr):	1973.929
Stroke (in):	1.08		
Overall Length (in):	14.25	Mounting Length (in):	8.66
Overall Width (in):	13.25	Mounting Width(in):	8.66
Overall Height (in):	18.44	Mounting Height (in):	18.63*
Suction Size (in):	1 1/8	Stub	
Discharge Size (in):	3/4	Stub	
Initial Oil Charge (oz):	110		
Oil Recharge (oz):	106		
Net Weight (lbs):	175.0		
Internal Free Volume (in <sup>3</sup> ):			
HorsePower			
* Overall compressor height on Copeland Brand Product's specified mounting dimensions			

## Electrical

LRA-High*:	135.0	MCC (Amps):	38.6	UL File No.:	SA-2337
LRA-Half Winding:		RPM:		UL File Date:	08-Feb-1984
LRA-Low*:		Max Operating Current:			
RLA(=MCC/1.4; use for contactor selection):	27.6				
RLA (=MCC/1.56; use for breaker & wire size selection):	24.7				
*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.					

## Alternate Applications

Refrigerant	Frequency(Hz)	Phase	Voltage	Application
R-22 HCFC	50	3	380/420	Air Conditioning