

## Evaporator and crankcase pressure regulator series PRE and PRC

### Features

- Compact design permits minimal space requirements
- Schrader valve on inlet for ease of setting
- Direct operated regulator
- Balanced port design provides accurate pressure control
- Copper tubes for easy soldering



### Technical data

Refrigerants	HFC, HCFC
Oil Compatibility	Mineral, Alkyl Benzene and Polyol-Ester (POE) Lubricants
Max. Allowable Pressure PS Max. Test Pressure PT	25 bar 30 bar
Material Housing	CW509L (EN12420)
Temperature Range	Storage -30 ... 80°C Medium TS -30 ... 80°C Ambient -30 ... 80°C

Pressure Change Per Turn: Valve Size 1 Valve Size 2	0.6 bar 0.4 bar
Pressure Range Factory Setting	0.5 ... 6.9 bar 2 bar
Weight: PRC/PRE-1.. PRC/PRE-2..	0.6 kg 1.3 kg

## Evaporator pressure regulator series PRE

### Selection table

Type	Part No.	Tube Connection ODF	Nominal Capacity (kW)			
			R134a	R404A / R507	R407C	R22
PRE - 11A	800 380	16 mm - 5/8"	3.0	4.5	4.5	4.8
PRE - 11B	800 381	22 mm - 7/8"				
PRE - 21C	800 382	28 mm	7.4	11.1	11.1	11.9
PRE - 21D	800 383	1-1/8"				

**Note 1:** Nominal Capacities are Based on Evaporating Temperature +4°C, Condensing Temperature +38°C and a Pressure Drop of 1K.

**Note 2:** For other operating conditions, please use Copeland Select software.

# Crankcase pressure regulator series PRC

## Selection

Type	Part No.	Tube Connection ODF	Nominal Capacity (kW)			
			R134a	R404A / R507	R407C	R22
PRC - 11A	800 384	16 mm - 5/8"	3.0	4.5	4.5	4.8
PRC - 11B	800 385	22 mm - 7/8"				
PRC - 21C	800 386	28 mm	7.4	11.1	11.1	11.9
PRC - 21D	800 387	1-1/8"				
PRC - 21E	800 388	35 mm - 1-3/8"				

**Note 1:** Nominal Capacities are Based on Evaporating Temperature +4°C and Condensing Temperature +38°C and a Pressure Drop of 1 K.

**Note 2:** For other operating conditions, please use Copeland Select software.

## Capacity table

Refrigerant	Evaporating Temperature °C	Capacity (kW) Valve Setting °C														
		Valve Size 1: PRC-11x							Valve Size 2: PRC-21x							
		-20	-15	-10	-5	0	+5	+10	-20	-15	-10	-5	0	+5	+10	
R22	-29	2.3	3.4	4.4	4.8	4.9			5.8	8.8	10.0	10.0	10.0			
	-21		2.4	4.1	5.4	5.8				6.5	12.1	12.1	12.1			
	-14			2.7	4.9	6.2					8.1	13.8	13.8			
	-8				3.5	5.3						9.0	15.4			
	-3					3.1							9.9			
R407C	-6				3.1	4.8						7.9	13.9			
	-1					2.9							9.2			
R134a	-6					2.1	3.9	5.3						5.2	10.3	12.9
	1						2.4	4.7							6.1	12.2
	7							3.3								8.1
R404A / R507	-27	1.6	2.9	3.7	3.9				4.8	8.2	8.2	8.2				
	-20		1.9	3.5	4.5					5.7	9.8	9.8				
	-14			2.2	4.5						6.8	11.6				
	-10				3.1							8.1				

**Note:** Selection for Operating Conditions other than +38°C / +4°C and 1 K Liquid Subcooling at the inlet of the valve: (Capacities are based on a Pressure Drop of 0.07 bar).