

## PARKER - EC AND ECE SERIES - THERMOSTATIC EXPANSION VALVES



The EC Series features extended ODF solder connections, brass body, and balanced port design. The new stainless steel power element makes it suited for both refrigeration and air conditioning applications. Rainbow Charges™ are indicated in the chart below for medium temperature “W” charges, low temperature “Z” charges or MOP “X” charge for those applications.

### APPLICATIONS:

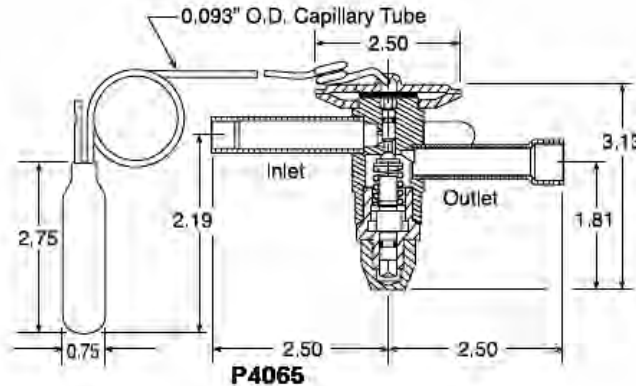
- Small Chillers
- Heat Pump Units
- Air Conditioning Units
- Freezers
- Walk-in Boxes
- Refrigerated Cases
- Mobile Refrigeration

### FEATURES:

- Extended ODF connections
- Balanced port design
- 30 inch capillary tube with shock loop
- Stainless steel power element
- Field adjustable superheat
- 1/4 inch ODF external equalizer
- Rainbow charges available
- Weight: 1.0 lbs/0.45 kg

## PARKER - THERMOSTATIC EXPANSION VALVES

### EC Series



### EC Series

Refrigerant	Refrigerant designation	Orifice designation	Capacity range	Internally equalized	External equalized	Rainbow charges™	Inlet connection	Outlet connection (optional)	Equalizer connection
R-12 R-134a R-401A R-401B	J	AA A B C	1/8 -1/2 1/4 -1 1-2 1-1/2 -3	EC-AA-J EC-A-J EC-B-J EC-C-J	ECE-AA-J ECE-A-J ECE-B-J ECE-C-J	W, X60	3/8" ODF	1/2" ODF (5/8" ODF)	1/4" ODF
R-402A R-402B R-404A R-502 R-507	S	AA A B C	1/8 -1/2 1/4 -1 1-2 1-1/2 -4	EC-AA-S EC-A-S EC-B-S EC-C-S	ECE-AA-S ECE-A-S ECE-B-S ECE-C-S	W, Z, X110 X35	3/8" ODF	1/2" ODF (5/8" ODF)	1/4" ODF
R-22 R-407C	V	AA A B C	1/5 -3/4 1/2 -1-1/2 1-1/2 -3 3-1/2 -5	EC-AA-V EC-A-V EC-B-V EC-C-V	ECE-AA-V ECE-A-V ECE-B-V ECE-C-V	W, Z, X100 X35	3/8" ODF	1/2" ODF (5/8" ODF)	1/4" ODF

### NOTES:

1. Maximum operational pressure 500 psig (35 bars) high side and 275 psig (19 bars) low side.
2. Maximum storage temperature 130° F (55° C).
3. Consult Parker for pressure and temperature exceptions.
4. Do not use “W” or “Z” liquid charges in applications where bulb temperatures can exceed 130° F (55° C). For these applications use type “X” MOP gas charge only.

# Refrigeration PARKER - EC AND ECE SERIES - THERMOSTATIC EXPANSION VALVES

## R-12, R-134a, R-401A, R-401B

PART NO	MODEL NO	NOMINAL TONS	INLET (in ODF)	OUTLET (in ODF)	EQUALIZER (in)
040311-01	EC-AA-JW	1/8 - 1/2	1/4	1/2	--
040296-01	EC-A-JW	1/4 -1	3/8	1/2	--
040358-02	EC-A-JX60	1/4 -1	3/8	1/2	--
040297-01	ECE-A-JW	1/4 -1	3/8	1/2	1/4
040314-01	ECE-B-JW	1 -2	1/2	5/8	1/4
040298-01	EC-C-JW	11/2 -3	1/2	7/8	--
040299-05	ECE-C-JW	11/2 -3	3/8	5/8	1/4
040432-01	ECE-C-JW	11/2 -3	1/2	5/8	1/4
040299-01	ECE-C-JW	11/2 -3	1/2	7/8	1/4
040299-03	ECE-D-JW	31/2 -5	5/8	7/8	1/4
040299-04	ECE-D-JX60	31/2 -5	5/8	7/8	1/4

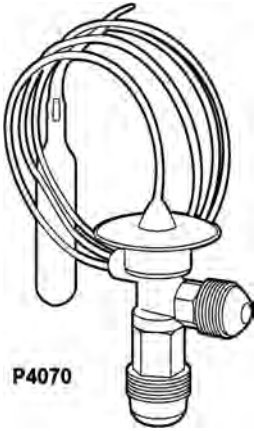
## R-22, R-407C

PART NO	MODEL NO	NOMINAL TONS	INLET (in ODF)	OUTLET (in ODF)	EQUALIZER (in)
040367-01	EC-AA-VW	1/5 - 3/4	1/4	1/2	--
040368-01	ECE-AA-VW	1/5 - 3/4	1/4	1/2	1/4
040349-05	ECE-AA-VW	1/5 - 3/4	1/4	1/2	1/4
040368-04	ECE-AA-VX100	1/5 - 3/4	1/4	1/2	1/4
040349-07	ECE-AA-VZ	1/5 - 3/4	1/4	1/2	1/4
040350-05	ECE-A-VW	1/2 - 11/2	3/8	1/2	1/4
040246-10	ECE-A-VX100	1/2 - 11/2	3/8	1/2	1/4
040350-07	ECE-A-VZ	1/2 - 11/2	3/8	1/2	1/4
040351-05	ECE-B-VW	11/2 -3	3/8	1/2	1/4
040374-01	ECE-B-VW	11/2 -3	1/2	5/8	1/4
040351-07	ECE-B-VZ	11/2 -3	3/8	1/2	1/4
040374-02	ECE-B-VX35	11/2 -3	1/2	5/8	1/4
040206-35	ECE-B-VX100	11/2 -3	3/8	1/2	1/4
040374-06	ECE-B-VX100	11/2 -3	3/8	5/8	1/4
040374-07	ECE-B-VX100	11/2 -3	1/2	5/8	1/4
040374-04	ECE-B-VX100	11/2 -3	1/2	5/8	1/4
040206-05	ECE-C-VW	31/2 -5	1/2	7/8	1/4
040206-06	ECE-C-VX35	31/2 -5	1/2	7/8	1/4
040206-33	ECE-C-VX100	31/2 -5	3/8	1/2	1/4
040206-21	ECE-C-VX100	31/2 -5	3/8	5/8	1/4
040206-44	ECE-C-VX100	31/2 -5	1/2	5/8	1/4
040206-22	ECE-C-VX100	31/2 -5	1/2	7/8	1/4
040206-28	ECE-C-VX100	31/2 -5	5/8	7/8	1/4
040262-01	ECE-C-VX100B15	31/2 -5	1/2	5/8	1/4
040206-46	ECE-D-VW	51/2 -71/2	5/8	7/8	1/4
040206-16	ECE-D-VX100	51/2 -71/2	1/2	7/8	1/4
040206-20	ECE-D-VX100	51/2 -71/2	5/8	7/8	1/4
040262-02	ECE-D-VX100B15	51/2 -71/2	5/8	7/8	1/4

## R-402A, R-402B, R-404A, R-502, R-507

PART NO	MODEL NO	NOMINAL TONS	INLET (in ODF)	OUTLET (in ODF)	EQUALIZER (in)
040315-01	EC-AA-SW	1/8 - 1/2	1/4	1/2	
040315-02	EC-AA-SX35	1/8 - 1/2	1/4	1/2	
040361-03	EC-AA-SZ	1/8 - 1/2	1/4	1/2	
040316-01	ECE-AA-SW	1/8 - 1/2	1/4	1/2	1/4
040316-02	ECE-AA-SX35	1/8 - 1/2	1/4	1/2	1/4
040317-01	EC-A-SW	1/4 - 1	3/8	1/2	
040317-02	EC-A-SX35	1/4 - 1	3/8	1/2	
040362-03	EC-A-SZ	1/4 - 1	3/8	1/2	
040318-01	ECE-A-SW	1/4 - 1	3/8	1/2	1/4
040362-05	ECE-A-SW	1/4 - 1	3/8	1/2	1/4
040318-02	ECE-A-SX35	1/4 - 1	3/8	1/2	1/4
040363-05	ECE-B-SW	1 - 2	3/8	1/2	1/4
040320-02	ECE-B-SX35	1 - 2	3/8	1/2	1/4
040363-07	ECE-B-SZ	1 - 2	3/8	1/2	1/4
040320-01	ECE-C-SW	11/2 - 4	1/2	5/8	1/4
040322-01	ECE-C-SW	11/2 - 4	1/2	7/8	1/4
040364-07	ECE-C-SZ	11/2 - 4	3/8	1/2	1/4
040322-04	ECE-C-SX110	11/2 - 4	1/2	7/8	1/4
040322-05	ECE-D-SW	41/2 - 6	5/8	7/8	1/4
040322-07	ECE-D-SZ	41/2 - 6	5/8	7/8	1/4

## PARKER - N AND NE SERIES - THERMOSTATIC EXPANSION VALVES



P4070

This small flare brass valve series is ideally suited where space is at a premium. Its stainless steel power element and compact body has always made it the first choice for installation in commercial refrigeration systems. External equalized models are provided with a 30" capillary and 1/4" SAE flare nut, eliminating the need to run a separate equalizer line. Medium, low & MOP (X) charges are available as noted below.

### Applications:

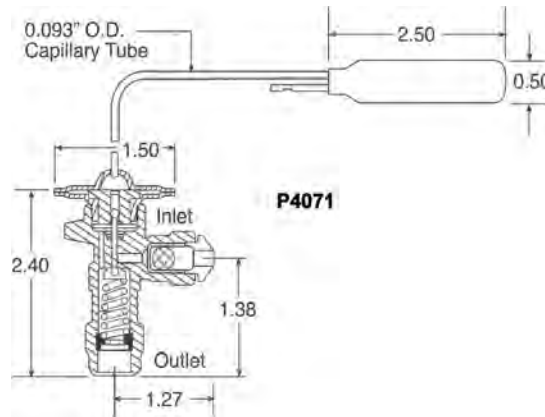
- Low Profile Coolers
- Beverage Dispensers
- Beverage Boxes
- Small Chillers
- Ice Machines
- Small Freezers

### Features:

- Compact body
- Removable inlet screen
- Factory set superheat
- Accurate and stable control
- Right angle configuration
- 30" capillary tube
- Weight: 5.0 oz/ 14 kg

## PARKER - THERMOSTATIC EXPANSION VALVES

### N Series



P4071

### N SERIES

Refrigerant	Refrigerant designation	Nominal capacity	Capacity range	Internally equalized	Externally equalized	Rainbow charges™	Inlet connection	Outlet connection
R-12 R-134a R-401A R-401B	J	1/4 1/2 2	1/4 -1/2 1/4 -3/4 1-2	N1/4 J N1/2 J N2J	NE 2 J	W, X60	1/4" SAE 1/4" SAE 3/8" SAE	1/2" SAE
R-402A R-402B R-404A R-502 R-507	S	1/4 1/2 2	1/4 -1/2 1/4 -3/4 1-2	N1/4 S N1/2 S N2S	NE 2 S	W, Z, X110 X35	1/4" SAE 1/4" & 3/8" SAE 3/8" SAE	1/2" SAE
R-22 R-407C	V	1/4 1/2 1 3	1/4 -1/2 1/4 -3/4 1/2 -1 1-1/2 -3	N 1/4 V N 1/2 V N 1 V N 3 V	NE 3 V	W, Z, X100 X35	1/4" SAE 1/4" or 3/8" SAE 3/8" SAE	1/2" SAE

### NOTES:

1. Maximum operational pressure 500 psig (35 bars) high side and 275 psig (19 bars) low side.
2. Maximum storage temperature 130° F (55° C).
3. Consult Parker for pressure and temperature exceptions.
4. Do not use "W" or "Z" liquid charges in applications where bulb temperatures can exceed 130° F (55° C). For these applications use type "X" MOP gas charge only.