



E⁷V twin

Standardisation and ease of use for high capacity HVAC systems

A simple and effective idea

Centrifugal compressors are increasingly used in large water chillers for air-conditioning applications, and customers often install two valves in parallel to manage such high capacities.

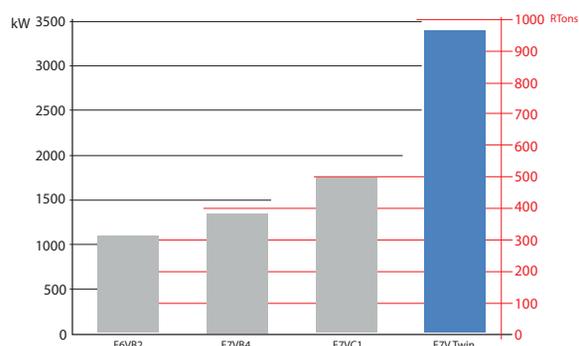
With this product, CAREL guarantees precise control thanks to the EVDevo Twin driver and optimises the production process by supplying the valve body and motor-cartridge as separate parts.

The most competitive choice thanks to:

- Capacity up to 3 MW (1000 RT);
- Certified reliability for over 10 years' service;
- Control efficiency and tight closing equivalent to a solenoid valve;
- Components supplied separately to simplify production and logistics management.

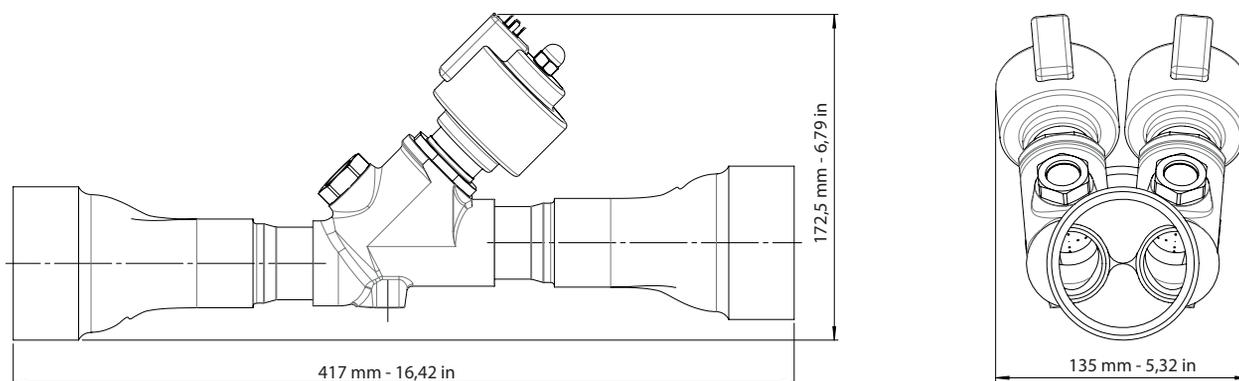
Extended capacity

Confirming the quality of CAREL's E7V in terms of reliability, precision and tight closing, the new E7V Twin Series extends the capacity range to beyond the 3 Megawatt limit (> 950 RT).



(*) Cooling capacity delivered under the following conditions:
R-134a; $T_{ev} = 4,44^{\circ}\text{C}/40^{\circ}\text{F}$; $T_{con} = 48,88^{\circ}\text{C}/120^{\circ}\text{F}$; $SC = 3\text{K}/5,4^{\circ}\text{R}$

Dimensions



CAREL EXV operating specifications

Refrigerants:	R134a, R-1234yf, R-1234z, others*
Maximum working pressure (PS, MWP) with Group 1 fluids: 13 barg (188 PSig).	with Group 2 fluids: 25 barg (362 PSig); 35 bars (508 psig) - with bipolar stator - 26 bars (377 psig) with unipolar stator
Maximum operating pressure differential (MOPD):	25 bars (362 PSI)

*Contact CAREL for different operating conditions or alternative refrigerants.



CAREL exv lab is the tool that helps users select and use CAREL valves. It is a web environment where both expert designers and novice users can find tools to select the right valve for their application, and identify the possible operating range of the EXV.

<https://exvselectiontool.carel.com/ExVLab/>

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