

TMV Series

Thermostatic expansion valves
with interchangeable orifice cartridges



Honeywell TMV



Honeywell TMVBL



Honeywell TMVX



Honeywell TMVXBL

TMV keeps you cool

Valves of the TMV series at a glance



TMV



TMVBL



TMVX



TMVXBL

Do you use a special refrigerant?

TMV keeps you cool!

Owing to the special combi adsorber charge you only need one valve body of the TMV series for each refrigerant group.

Does your evaporator have interfering pressure drops?

TMV keeps you cool!

The TMVX/TMVXBL valves have an external pressure equalisation and compensate for interfering pressure drops.

Do you have many applications with different cooling capacities?

TMV keeps you cool!

Owing to interchangeable orifice cartridges you only require one TMV valve for the total capacity range from 0.3 to 21.5 kW and the respective evaporating temperature range.

Do you know breakdowns during initial start-up and after servicing?

TMV keeps you cool!

The special adsorber charge of the bulb avoids a re-condensation of the control charge. This way the TMV valves also operate in the most extreme situations such as during high-capacity operation at start-up or when the valve is icy.

Refrigerant	Evaporating temperature range	MOP
R134a, R401A, R12	+ 15 °C to - 30 °C	–
R22, R407C, R407A	+ 15 °C to - 45 °C	–
R404A, R507, R402A, R407B, R502	± 0 °C to - 50 °C	–

Adsorber charges without MOP

Refrigerant	Evaporating temperature range	MOP
R134a, R401A, R12	+ 5 °C to - 30 °C	MOP A + 15 °C
	- 10 °C to - 30 °C	MOP A ± 0 °C
R22, R407C, R407A	+ 5 °C to - 45 °C	MOP A + 15 °C
	- 10 °C to - 45 °C	MOP A ± 0 °C
	- 27 °C to - 45 °C	MOP A - 18 °C
R404A, R507, R402A, R407B, R502	- 10 °C to - 50 °C	MOP A ± 0 °C
	- 20 °C to - 50 °C	MOP A - 10 °C
	- 27 °C to - 50 °C	MOP A - 18 °C

Adsorber charges with pressure controlled behaviour (MOP)

All or nothing?

Thermostatic expansion valves of the TMV series are used for general refrigerating plants as well as HVAC systems and refrigerated transports. The interchangeable orifice cartridges offer enormous advantages during planning and commissioning since they can be easily cleaned and changed. The small step graduation of the orifice sizes always offers the optimum efficiency of the cooling capacity.



Air-conditioning systems



Refrigerated cabinets



Heat pumps



Transport cooling

Is your planned valve capacity not corresponding with the conditions on-site?



TMV keeps you cool!

Owing to the interchangeable orifice cartridges your system can be adapted to the real conditions - at the last minute.



Is operating safety and reliability your responsibility?

TMV keeps you cool!

The adsorber charge, which is insensitive to the ambient temperature, but has a strong reaction sensitivity for smallest possible superheat, offers the highest operating safety - even in icy conditions or while defrosting using hot gas.

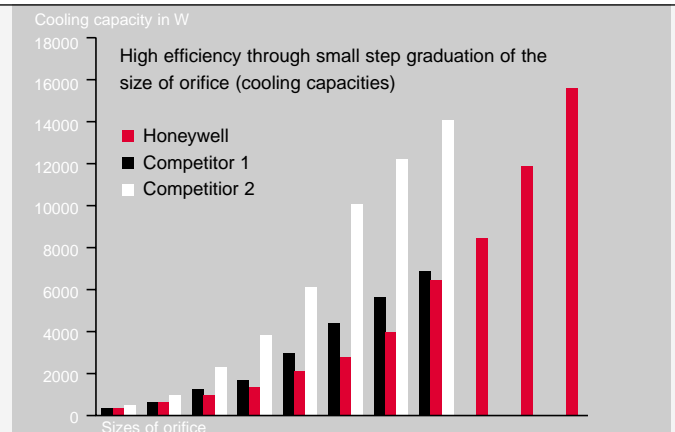
Does your customer complain about operating costs that are too high?

TMV keeps you cool!

Due to the small graduation of orifice size the efficiency of your cooling system results in an optimum solution where energy consumption (power consumption) can be reduced.

Type	Size of orifice	Nominal capacity in kW*		
		R134a	R22, R407C	R404A, R507
TMV/TMVX - TMVBL/TMVXBL	0.3	0.34	0.50	0.37
	0.5	0.65	0.95	0.70
	0.7	0.90	1.3	1.0
	1.0	1.3	1.9	1.5
	1.5	2.1	3.1	2.3
	2.0	2.7	3.9	2.9
	2.5	3.8	5.6	4.2
	3.0	6.2	8.9	6.7
	3.5	8.2	11.7	8.8
	4.5	11.1	16.3	12.3
	4.75	15.0	21.5	16.2

The nominal capacities refer to $t_o = -10^\circ\text{C}$, $t_c = +25^\circ\text{C}$ and 1 K subcooling at the valve inlet.



Sizes of orifice in comparison

Your Partner



Honeywell

Automation & Control Solutions

Honeywell GmbH

Cooling Solutions

Hardhofweg

74821 Mosbach/Germany

Phone: +49 (0) 6261 81-475

Fax: +49 (0) 6261 81-461

E-Mail: cooling.mosbach@honeywell.com

<http://europe.hbc.honeywell.com>

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