

# Comparative table expansion valves

Series TMV / TMVL with changeable orifice

Capacity at:  $t_0 = +5^{\circ}\text{C}$ ,  $t_c = +32^{\circ}\text{C}$ , subcooling = 4 K

Refrigerant	Danfoss				Honeywell				
	Series	Orifice size	Capacity [kW]	Capacity [tons]	Orifice size	Capacity [kW]	Capacity [tons]	Series*	
R 134a	TN 2 TEN 2	0X	0.4	0.11	0.3	0.35	0.10	TMV(X) TMV(X)BL TMVL(X)	
		00	0.9	0.25	0.5	0.66	0.19		
		01	1.8	0.5	0.7	0.91	0.26		
		02	2.6	0.8	1.0	1.3	0.38		
		03	4.6	1.3	1.5	2.1	0.61		
		04	6.7	1.9	2.0	2.7	0.78		
		05	8.6	2.5	2.5	3.9	1.10		
		06	10.5	3.0	3.0	6.3	1.79		
						3.5	8.3		2.37
						4.5	11.3		3.21
				4.75	15.2	4.34			
R 404A	TS 2 TES 2	0X	0.38	0.11	0.3	0.37	0.10	TMV(X) TMV(X)BL TMVL(X)	
		00	0.7	0.21	0.5	0.69	0.20		
		01	1.6	0.45	0.7	0.99	0.28		
		02	2.1	0.6	1.0	1.4	0.41		
		03	4.2	1.2	1.5	2.3	0.65		
		04	6.0	1.7	2.0	2.9	0.82		
		05	7.7	2.2	2.5	4.2	1.18		
		06	9.1	2.6	3.0	6.6	1.89		
						3.5	8.7		2.48
						4.5	12.2		3.47
				4.75	16.1	4.57			
R 22	TX 2 TEX 2	0X	0.5	0.15	0.3	0.49	0.14	TMV(X) TMV(X)BL TMVL(X)	
		00	1.0	0.3	0.5	0.94	0.27		
		01	2.5	0.7	0.7	1.28	0.36		
		02	3.5	1.0	1.0	1.87	0.53		
		03	5.2	1.5	1.5	3.0	0.85		
		04	8.0	2.3	2.0	3.8	1.08		
		05	10.5	3.0	2.5	5.5	1.55		
		06	15.5	4.5	3.0	8.8	2.49		
						3.5	11.5		3.28
						4.5	16.0		4.56
				4.75	21.2	6.02			

## Series TMV / TMVL with changeable orifice

Capacity at:  $t_0 = +4^\circ\text{C}$ ,  $t_c = +38^\circ\text{C}$ , subcooling = 1 K

ALCO				Honeywell				Refrigerant
Series	Orifice size	Capacity [kW]	Capacity [tons]	Orifice size	Capacity [kW]	Capacity [tons]	Series*	
TI-MW TIE-MW TIS-MW TISE-MW	00	0.3	0.09	0.3	0.36	0.10	TMV(X) TMV(X)BL TMVL(X)	R 134a
	0	0.8	0.23	0.5	0.69	0.20		
	1	1.9	0.54	0.7	0.96	0.27		
	2	3.1	0.88	1.0	1.4	0.39		
	3	5.0	1.42	1.5	2.2	0.63		
	4	8.3	2.36	2.0	2.9	0.82		
	5	10.1	2.88	2.5	4.0	1.15		
	6	11.7	3.33	3.0	6.6	1.87		
			3.5	8.7	2.48			
			4.5	11.8	3.35			
			4.75	15.9	4.53			
Series	Orifice size	Capacity [kW]	Capacity [tons]	Orifice size	Capacity [kW]	Capacity [tons]	Series*	
TI-SW TIE-SW TIS-SW TISE-SW	00	0.4	0.11	0.3	0.36	0.10	TMV(X) TMV(X)BL TMVL(X)	R 404A
	0	1.0	0.28	0.5	0.68	0.19		
	1	2.3	0.65	0.7	0.97	0.28		
	2	3.9	1.11	1.0	1.4	0.40		
	3	6.2	1.76	1.5	2.2	0.64		
	4	10.1	2.88	2.0	2.8	0.80		
	5	12.3	3.50	2.5	4.1	1.17		
	6	14.2	4.04	3.0	6.5	1.86		
			3.5	8.6	2.44			
			4.5	12.0	3.41			
			4.75	15.8	4.49			
Series	Orifice size	Capacity [kW]	Leistung [tons]	Orifice size	Capacity [kW]	Capacity [tons]	Series*	
TI-HW TIE-HW TIS-HW TISE-HW	00	0.5	0.14	0.3	0.52	0.15	TMV(X) TMV(X)BL TMVL(X)	R 22
	0	1.3	0.37	0.5	0.99	0.28		
	1	3.2	0.91	0.7	1.4	0.39		
	2	5.3	1.51	1.0	2.0	0.56		
	3	8.5	2.42	1.5	3.2	0.90		
	4	13.9	3.96	2.0	4.0	1.14		
	5	16.9	4.81	2.5	5.8	1.65		
	6	19.5	5.55	3.0	9.3	2.64		
			3.5	12.2	3.47			
			4.5	17.0	4.83			
			4.75	22.4	6.37			

\* For explanations on these series see page 4-5. Please note also that these series of Honeywell could also come with other technical differences (length, weight, maximum pressures, etc.) Subject to change without notice · EN3H-0375GE23 R0709