

# Comparative table expansion valves

Series TLK / TLE / TLEX / TLESX with fixed 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	TUB TUBE TUC TUCE	1	0.7	0.19	0.5	0.66	0.19	TLK TLE TLEX
		2	1.0	0.28	0.7	0.91	0.26	
		3	1.4	0.39	1	1.3	0.38	
		4	2.1	0.59	1.5	2.1	0.61	
		5	2.7	0.78	2	2.7	0.78	
		6	4.1	1.20	2.5	3.9	1.10	
		7	5.5	1.60	3	6.3	1.79	
		8	8.2	2.30	3.5	8.3	2.37	
		9	12.0	3.50	4.5	11.3	3.21	
R 407C	TUB TUBE TUC TUCE	1	0.9	0.26	0.5	0.92	0.26	TLK TLE TLEX
		2	1.4	0.38	0.7	1.3	0.36	
		3	1.9	0.53	1	1.8	0.53	
		4	2.8	0.80	1.5	3.0	0.84	
		5	3.8	1.10	2	3.7	1.06	
		6	5.7	1.60	2.5	5.4	1.53	
		7	7.5	2.10	3	8.6	2.46	
		8	11.0	3.20	3.5	11.4	3.24	
		9	17.0	4.80	4.5	15.8	4.51	
R 404A R 507A	TUB TUBE TUC TUCE	1	0.7	0.19	0.5	0.69	0.20	TLK TLE TLEX
		2	1.0	0.28	0.7	0.99	0.28	
		3	1.4	0.39	1	1.4	0.41	
		4	2.1	0.60	1.5	2.3	0.65	
		5	2.8	0.79	2	2.9	0.82	
		6	4.2	1.20	2.5	4.2	1.18	
		7	5.6	1.60	3	6.6	1.89	
		8	8.4	2.40	3.5	8.7	2.48	
		9	12.0	3.50	4.5	12.2	3.47	

Danfoss				Honeywell				Refrigerant
Series	Orifice size	Capacity [kW]	Capacity [tons]	Orifice size	Capacity [kW]	Capacity [tons]	Series*	
TUB TUBE TUC TUCE	1	1.3	0.40	0.7	1.3	0.37	TLK TLE TLEX	R 410A
	2	2.1	0.60	1	2.3	0.66		
	3	2.9	0.80	1.5	3.7	1.06		
	4	4.5	1.30	2	4.7	1.34		
	5	5.9	1.70	2.5	6.8	1.93		
	6	9.0	2.50	3	10.9	3.10		
	7	12.0	3.40	3	10.9	3.10		
				3.5	14.3	4.07		
	8	18.0	5.00	4.5	19.9	5.67		
9	26.0	7.50	4.75	26.3	7.49	TLESX		
Series	Orifice size	Capacity [kW]	Capacity [tons]	Orifice size	Capacity [kW]	Capacity [tons]	Series*	
TUB TUBE TUC TUCE	1	0.9	0.25	0.5	0.90	0.27	TLK TLE TLEX	R 22
	2	1.3	0.36	0.7	1.3	0.36		
	3	1.8	0.50	1	1.9	0.53		
	4	2.6	0.75	1.5	3.0	0.85		
	5	3.5	1.00	2	3.8	1.08		
	6	5.3	1.50	2.5	5.5	1.55		
	7	7.0	2.00	3	8.8	2.49		
	8	11.0	3.00	3.5	11.5	3.28		
	9	16.0	4.50	4.5	16.0	4.56		

\* 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.)

tons = tons (US) --> 1 ton (US) = 3.513 kW

# Comparative table expansion valves

Series TLESX / TLEX with fixed orifice

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

Refrigerant	ALCO				Honeywell		
	Series	Type without MOP	Type with MOP	Capacity [kW]	Orifice size	Capacity [kW]	Series*
R 134a	TX6	TX6-M02	TX6-M12	10.3	4.5	11.8	TLESX TLEX
		TX6-M03	TX6-M13	18.4	4.75	15.9	
		TX6-M04	TX6-M14	25.6	5	20.0	
		TX6-M05	TX6-M15	32.5	6	27.6	
		TX6-M06	TX6-M16	48.1	7	35.3	
		TX6-M07	TX6-M17	62.8	8	43.3	
					10	51.0	
					11	65.0	
R 407C	TX6	TX6-N02	TX6-N12	14.4	4.5	16.4	TLESX TLEX
		TX6-N03	TX6-N13	25.6	4.75	21.6	
		TX6-N04	TX6-N14	35.7	5	28.0	
		TX6-N05	TX6-N15	45.2	6	40.8	
		TX6-N06	TX6-N16	66.9	6	40.8	
		TX6-N07	TX6-N17	87.3	7	52.5	
					8	61.8	
					10	72.3	
R 410A	TX6	-	TX6-Z12	16.0	3.5	14.6	TLESX TLEX
		-	TX6-Z13	28.0	4.5	20.3	
		-	TX6-Z14	40.0	4.75	26.8	
		-	TX6-Z15	50.0	5	34.8	
		-	TX6-Z16	74.0	6	50.8	
		-	TX6-Z17	97.0	6	50.8	
					7	65.3	
					8	76.9	
R 22	TX6	TX6-H02	TX6-H12	13.3	3.5	12.2	TLESX TLEX
		TX6-H03	TX6-H13	23.7	4.5	17.0	
		TX6-H04	TX6-H14	33.0	4.75	22.4	
		TX6-H05	TX6-H15	41.8	5	29.1	
		TX6-H06	TX6-H16	61.9	6	42.4	
		TX6-H07	TX6-H17	80.8	7	54.5	
					8	64.1	
					10	75.1	

## Series TLESX / TLEX with fixed orifice

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

Danfoss			Honeywell			Refrigerant
Series	Orifice size	Capacity [kW]	Orifice size	Capacity [kW]	Series*	
TDE TDEB	3	10.5	3.5	11.5	TLEX TLESX	R 134a
	4	14.0	4.5	16.0		
	6	21.0	4.75	21.2		
	7.5	26.0	5	27.4		
	8	28.0	5	27.4		
	11	38.5	6	40.0		
	12.5	44.0	6	40.0		
	16	56.0	7	51.4		
	19	66.5	8	60.6		
	20	70.0	10	70.9		
	26	91.0	11	90.5		
Series	Orifice size	Capacity [kW]	Orifice size	Capacity [kW]	Series*	
TDE TDEB	3	10.5	3.5	11.4	TLEX TLESX	R 407C
	4	14.0	4.5	15.8		
	6	21.0	4.75	20.9		
	7.5	26.0	5	27.1		
	8	28.0	5	27.1		
	11	38.5	6	39.5		
	12.5	44.0	7	50.8		
	16	56.0	7	50.8		
	19	66.5	10	70.0		
	20	70.0	10	70.0		
	26	91.0	11	89.4		

\* 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.)