

UNIT COOLER STANDARD FEATURES

TSU-TYPE

ReFree

- High efficient inner grooved copper tube (DIA. 3/8").
- Powder painted aluminum case.
- Electric defrost (U-heater)
- PVC TERMINAL BOX (IP66)
- Backward air flow configuration



TDU-TYPE

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MODEL NOMENCLATURE

TSU	0 2 0	H	1	2	5
Model	Equiv. HP		Phase	Power	Hz
TSU	0 0 5 = 0.5 HP	H = High Temp.	1 = 1Ph	2 = 220V	5 = 50Hz
TDU	0 0 8 = 0.75 HP	(0 ~ 10°C)			6 = 60Hz
	0 1 0 = 1.0 HP	M = Medium Temp.			
	0 1 5 = 1.5 HP	(-10 ~ -5°C)			
	0 2 0 = 2.0 HP	L = Low Temp.			
	0 3 0 = 3.0 HP	(-30 ~ -20°C)			
	0 4 0 = 4.0 HP				
	0 4 5 = 4.5 HP				
	0 5 0 = 5.0 HP				

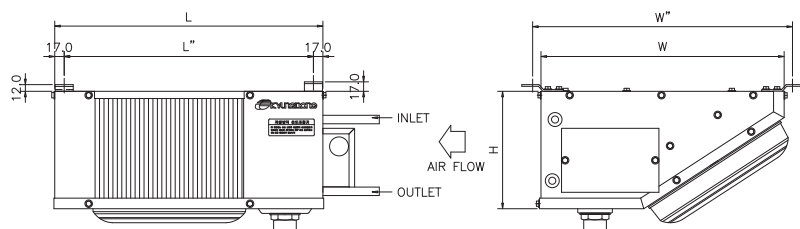
TSU Cooling Capacity & Electric Data - 50Hz

Nominal capacity R404A																			
Model	Fin DT1=10K DT1=8K DT1=7K			Air			Tube			Fan data		Connection			Defrost heater		Weight kg		
	spacing	t _a =0°C	t _a =-8°C	t _a =-25°C	Surface	volume	throw	Sound	volume	Dia	Power input	Inlet	Outlet	Drain	Coil	Drain		Fan	
	mm	W	W	W	m ²	m ³ /h	m	dB(A)5m	dm ³	Ø x St	W	Voltage	mm	mm	A	kW x No		No	
TSU005H	4.2	755	529	-	2.7	437	5.0	44	0.6	250 x 1	47	230V 1Ph 50Hz	12.7	12.7	25	0.42kW x 1	0.30kW x 1	-	11
TSU008H	4.2	917	644	-	3.4	307	5.0	44	0.7	250 x 1	47	230V 1Ph 50Hz	12.7	12.7	25	0.42kW x 1	0.30kW x 1	-	12
TSU010H	4.2	1356	971	-	4.5	554	5.0	44	0.9	250 x 1	47	230V 1Ph 50Hz	12.7	12.7	25	0.54kW x 1	0.38kW x 1	-	13
TSU015H	4.2	1880	1347	-	6.5	665	5.5	47	1.3	250 x 2	94	230V 1Ph 50Hz	12.7	15.9	25	0.78kW x 1	0.52kW x 1	-	18
TSU020H	4.2	3025	2189	-	9.9	792	5.5	47	1.8	250 x 2	94	230V 1Ph 50Hz	12.7	15.9	25	0.88kW x 1	0.59kW x 1	-	21
TSU030H	4.2	4547	3281	-	14.6	1150	6.5	49	2.5	250 x 3	141	230V 1Ph 50Hz	12.7	15.9	25	1.25kW x 1	0.83kW x 1	-	29
TSU040H	4.2	5305	3908	-	16.5	1432	6.5	49	2.8	250 x 3	141	230V 1Ph 50Hz	12.7	19.1	25	1.40kW x 1	0.92kW x 1	-	32
TSU045H	4.2	5758	4202	-	18.8	1331	7.5	50	3.2	250 x 4	188	230V 1Ph 50Hz	12.7	19.1	25	1.59kW x 1	1.03kW x 1	-	39
TSU050H	4.2	7167	5304	-	21.9	1910	7.5	50	3.7	250 x 4	188	230V 1Ph 50Hz	12.7	22.2	25	1.84kW x 1	1.18kW x 1	-	41
TSU005M	6.0	664	469	285	2.0	453	5.5	44	0.6	250 x 1	47	230V 1Ph 50Hz	12.7	12.7	25	0.42kW x 1	0.30kW x 1	-	11
TSU008M	6.0	813	568	349	2.5	345	5.5	44	0.7	250 x 1	47	230V 1Ph 50Hz	12.7	12.7	25	0.42kW x 1	0.30kW x 1	-	12
TSU010M	6.0	1186	851	546	3.3	576	5.5	44	0.9	250 x 1	47	230V 1Ph 50Hz	12.7	12.7	25	0.54kW x 1	0.38kW x 1	-	13
TSU015M	6.0	1637	1178	760	4.7	716	6.0	47	1.3	250 x 2	94	230V 1Ph 50Hz	12.7	15.9	25	0.78kW x 1	0.52kW x 1	-	18
TSU020M	6.0	2610	1909	1265	7.1	825	6.0	47	1.8	250 x 2	94	230V 1Ph 50Hz	12.7	15.9	25	0.88kW x 1	0.59kW x 1	-	21
TSU030M	6.0	3898	2848	1922	10.5	1188	6.5	49	2.5	250 x 3	141	230V 1Ph 50Hz	12.7	15.9	25	1.25kW x 1	0.83kW x 1	-	29
TSU040M	6.0	4542	3375	2338	11.9	1457	6.5	49	2.8	250 x 3	141	230V 1Ph 50Hz	12.7	19.1	25	1.40kW x 1	0.92kW x 1	-	32
TSU045M	6.0	4971	3636	2470	13.6	1432	7.5	50	3.2	250 x 4	188	230V 1Ph 50Hz	12.7	19.1	25	1.59kW x 1	1.03kW x 1	-	39
TSU050M	6.0	6125	4569	3207	15.9	1942	7.5	50	3.7	250 x 4	188	230V 1Ph 50Hz	12.7	22.2	25	1.84kW x 1	1.18kW x 1	-	41
TSU005L	8.0	587	420	260	1.5	453	6.0	44	0.6	250 x 1	47	230V 1Ph 50Hz	12.7	12.7	25	0.42kW x 1	0.30kW x 1	-	11
TSU008L	8.0	719	505	314	1.9	358	6.0	44	0.7	250 x 1	47	230V 1Ph 50Hz	12.7	12.7	25	0.42kW x 1	0.30kW x 1	-	12
TSU010L	8.0	1041	756	493	2.6	576	6.0	44	0.9	250 x 1	47	230V 1Ph 50Hz	12.7	12.7	25	0.54kW x 1	0.38kW x 1	-	13
TSU015L	8.0	1455	1039	678	3.6	767	6.5	47	1.3	250 x 2	94	230V 1Ph 50Hz	12.7	15.9	25	0.78kW x 1	0.52kW x 1	-	18
TSU020L	8.0	2280	1674	1124	5.5	841	6.5	47	1.8	250 x 2	94	230V 1Ph 50Hz	12.7	15.9	25	0.88kW x 1	0.59kW x 1	-	21
TSU030L	8.0	3420	2496	1718	8.2	1237	7.0	49	2.5	250 x 3	141	230V 1Ph 50Hz	12.7	15.9	25	1.25kW x 1	0.83kW x 1	-	29
TSU040L	8.0	3960	2934	2062	9.2	1481	7.0	49	2.8	250 x 3	141	230V 1Ph 50Hz	12.7	19.1	25	1.40kW x 1	0.92kW x 1	-	32
TSU045L	8.0	4337	3178	2171	10.6	1483	7.5	50	3.2	250 x 4	188	230V 1Ph 50Hz	12.7	19.1	25	1.59kW x 1	1.03kW x 1	-	39
TSU050L	8.0	5333	3965	2819	12.3	1975	7.5	50	3.7	250 x 4	188	230V 1Ph 50Hz	12.7	22.2	25	1.84kW x 1	1.18kW x 1	-	41

- Air throw is determined the air velocity 0.25m/s

TSU Dimension Data

Dimensional Drawing



Model Outline dimension Anchor size

Model	Outline dimension			Anchor size	
	L	W	H	L"	W"
TSU005	485	437	211	448	467
TSU008	485	437	211	448	467
TSU010	575	437	211	538	467
TSU015	765	437	211	728	467
TSU020	845	437	211	808	467
TSU030	1145	437	211	1108	467
TSU040	1265	437	211	1228	467
TSU045	1415	437	211	1378	467
TSU050	1615	437	211	1578	467

TDU Cooling Capacity & Electric Data - 50Hz

Nominal capacity R404A																			
Model	Fin			Air			Tube			Fan data		Connection			Defrost heater		Weight kg		
	spacing	t _a =0°C	t _a =-8°C	t _a =-25°C	Surface	volume	throw	Sound	volume	Dia	Power input	Inlet	Outlet	Drain	Coil	Drain		Fan	
	mm	W	W	W	m ²	m ³ /h	m	dB(A)5m	dm ³	Ø x St	W	Voltage	mm	mm	A	kW x No			
TDU008H	4.2	959	684	-	3.4	774	6.0	44	0.7	250 x 1	47	230V 1Ph 50Hz	12.7	12.7	25	0.50kW x 1	0.26kW x 1	-	12
TDU010H	4.2	1274	922	-	4.6	840	6.0	44	0.9	250 x 1	47	230V 1Ph 50Hz	12.7	12.7	25	0.64kW x 1	0.36kW x 1	-	13
TDU015H	4.2	1949	1417	-	6.5	1570	7.0	47	1.3	250 x 2	94	230V 1Ph 50Hz	12.7	15.9	25	0.90kW x 1	0.52kW x 1	-	18
TDU020H	4.2	3060	2241	-	9.7	1482	7.0	47	1.8	250 x 2	94	230V 1Ph 50Hz	12.7	15.9	25	0.90kW x 1	0.52kW x 1	-	21
TDU030H	4.2	4664	3444	-	14.4	2223	8.0	49	2.5	250 x 3	141	230V 1Ph 50Hz	12.7	15.9	25	1.28kW x 1	0.75kW x 1	-	29
TDU040H	4.2	5233	3892	-	16.5	2322	8.0	49	2.8	250 x 3	141	230V 1Ph 50Hz	12.7	19.1	25	1.44kW x 1	0.85kW x 1	-	32
TDU045H	4.2	6176	4582	-	18.8	2920	9.0	50	3.2	250 x 4	188	230V 1Ph 50Hz	12.7	19.1	25	1.63kW x 1	0.96kW x 1	-	39
TDU050H	4.2	7068	5281	-	21.9	3096	9.0	50	3.7	250 x 4	188	230V 1Ph 50Hz	12.7	22.2	25	1.88kW x 1	1.11kW x 1	-	41
TDU008M	6.0	833	598	377	2.5	785	6.5	44	0.7	250 x 1	47	230V 1Ph 50Hz	12.7	12.7	25	0.50kW x 1	0.26kW x 1	-	12
TDU010M	6.0	1086	792	518	3.4	840	6.5	44	0.9	250 x 1	47	230V 1Ph 50Hz	12.7	12.7	25	0.64kW x 1	0.36kW x 1	-	13
TDU015M	6.0	1669	1227	821	4.7	1570	7.5	47	1.3	250 x 2	94	230V 1Ph 50Hz	12.7	15.9	25	0.90kW x 1	0.52kW x 1	-	18
TDU020M	6.0	2633	1939	1323	7.0	1504	7.5	47	1.8	250 x 2	94	230V 1Ph 50Hz	12.7	15.9	25	0.90kW x 1	0.52kW x 1	-	21
TDU030M	6.0	3983	2968	2064	10.4	2223	8.5	49	2.5	250 x 3	141	230V 1Ph 50Hz	12.7	15.9	25	1.28kW x 1	0.75kW x 1	-	29
TDU040M	6.0	4466	3322	2342	11.9	2355	8.5	49	2.8	250 x 3	141	230V 1Ph 50Hz	12.7	19.1	25	1.44kW x 1	0.85kW x 1	-	32
TDU045M	6.0	5291	3940	2789	13.6	2964	9.5	50	3.2	250 x 4	188	230V 1Ph 50Hz	12.7	19.1	25	1.63kW x 1	0.96kW x 1	-	39
TDU050M	6.0	6021	4497	3213	15.9	3140	9.5	50	3.7	250 x 4	188	230V 1Ph 50Hz	12.7	22.2	25	1.88kW x 1	1.11kW x 1	-	41
TDU008L	8.0	731	528	340	1.9	785	7.0	44	0.7	250 x 1	47	230V 1Ph 50Hz	12.7	12.7	25	0.50kW x 1	0.26kW x 1	-	12
TDU010L	8.0	941	691	462	2.6	840	7.0	44	0.9	250 x 1	47	230V 1Ph 50Hz	12.7	12.7	25	0.64kW x 1	0.36kW x 1	-	13
TDU015L	8.0	1459	1073	729	3.6	1592	8.0	47	1.3	250 x 2	94	230V 1Ph 50Hz	12.7	15.9	25	0.90kW x 1	0.52kW x 1	-	18
TDU020L	8.0	2292	1695	1172	5.5	1504	8.0	47	1.8	250 x 2	94	230V 1Ph 50Hz	12.7	15.9	25	0.90kW x 1	0.52kW x 1	-	21
TDU030L	8.0	3476	2587	1827	8.1	2256	9.0	49	2.5	250 x 3	141	230V 1Ph 50Hz	12.7	15.9	25	1.28kW x 1	0.75kW x 1	-	29
TDU040L	8.0	3864	2898	2063	9.2	2355	9.0	49	2.8	250 x 3	141	230V 1Ph 50Hz	12.7	19.1	25	1.44kW x 1	0.85kW x 1	-	32
TDU045L	8.0	4591	3428	2450	10.6	2964	10.0	50	3.2	250 x 4	188	230V 1Ph 50Hz	12.7	19.1	25	1.63kW x 1	0.96kW x 1	-	39
TDU050L	8.0	5201	3915	2821	12.3	3140	10.0	50	3.7	250 x 4	188	230V 1Ph 50Hz	12.7	22.2	25	1.88kW x 1	1.11kW x 1	-	41

- Air throw is determined the air velocity 0.25m/s

TDU Dimension Data

Dimensional Drawing	Model	Outline dimension			Anchor size	
		L	W	H	L"	W"
	TDU008	518	256	351	334	305
	TDU010	628	256	351	444	305
	TDU015	838	256	351	654	305
	TDU020	838	256	351	654	305
	TDU030	1138	256	351	954	305
	TDU040	1258	256	351	1074	305
	TDU045	1408	256	351	1224	305
TDU050	1608	256	351	1424	305	