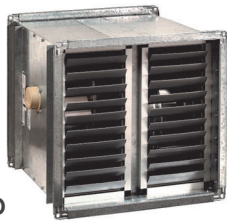


TCD Series - rectangular centrifugal (ERM)



TCD

product TCD Duct Mount Centrifugal (ERM)		
dimensions mm 315 - 560	poles & duty 4 - 6 / up to 4,000 L/s	
application Twin motor fans for medium to high pressure ducted systems. For single motor versions refer to the ICQ range.		

Suggested Specification

Centrifugal Flow duct mounted type fans shall be of the TCD Series manufactured by Pacific HVAC Engineering. Backward Curved Centrifugal impellers shall be driven by external rotor motors with sealed for life bearings. Cases incorporating standardised flanges to be of galvanised sheet steel. Models include a second motor / impeller for 100% standby. All fans shall be fully tested in accordance with the requirements of ISO 5801 : 2007 for air flow and ISO 13347 : 2004 for sound.

TCD Series

The TCD series is a range of **twin motor/impeller** inline duct mount fans for use in general ventilation systems. The twin motor/impeller configuration with built in back draft dampers allows for 100% standby.

Construction

Cases are fabricated from galvanised sheet steel with standard duct flanges for easy installation. Impellers are high efficiency backward curve centrifugal type. The impeller and motor assembly is supported by a robust galvanised steel frame for long, trouble free service.

Motors

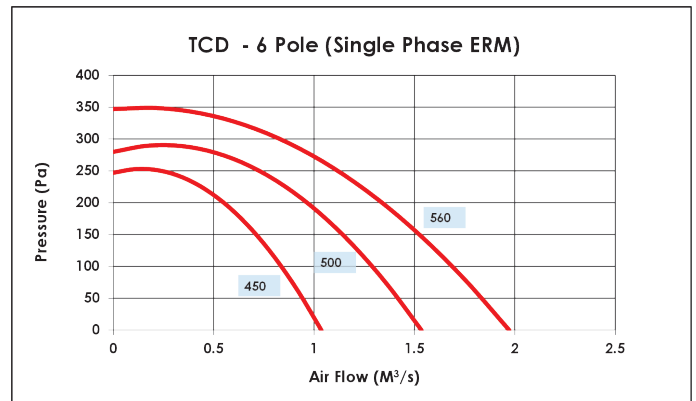
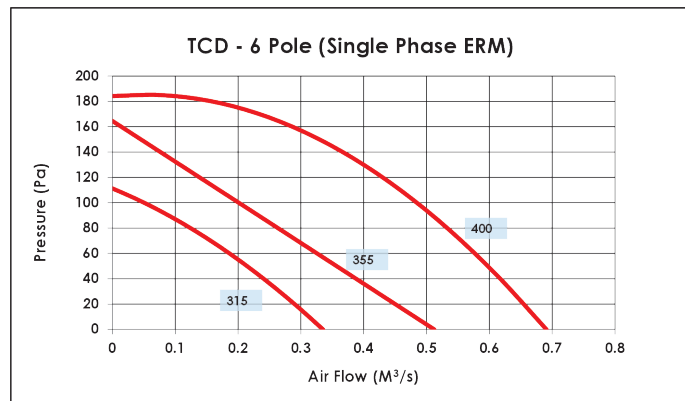
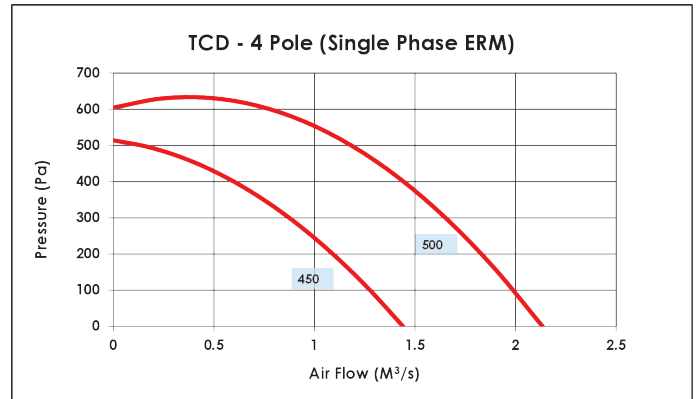
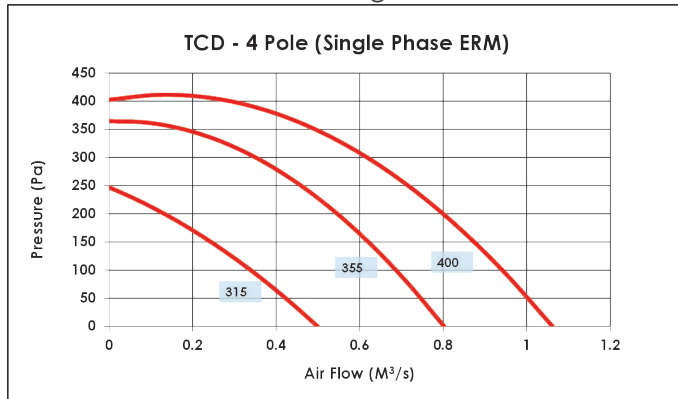
Motors are external rotor designs incorporating sealed for life bearings. Motor enclosures feature IP54 protection in all models. Windings incorporate class 'B' or class 'F' insulation as standard.

Wiring diagrams and latest data

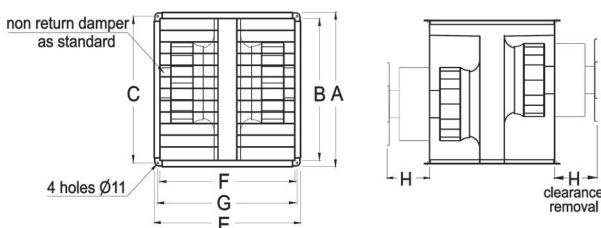
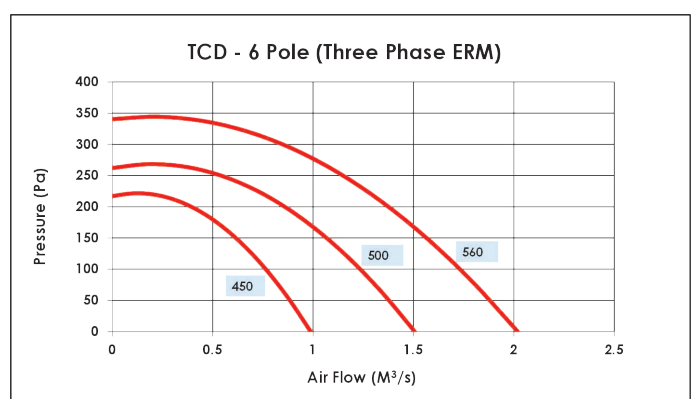
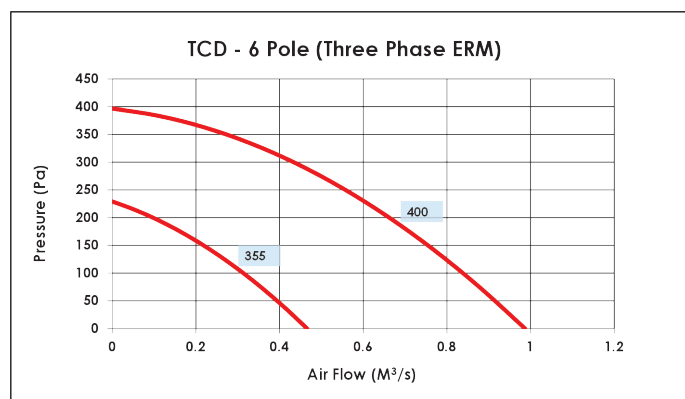
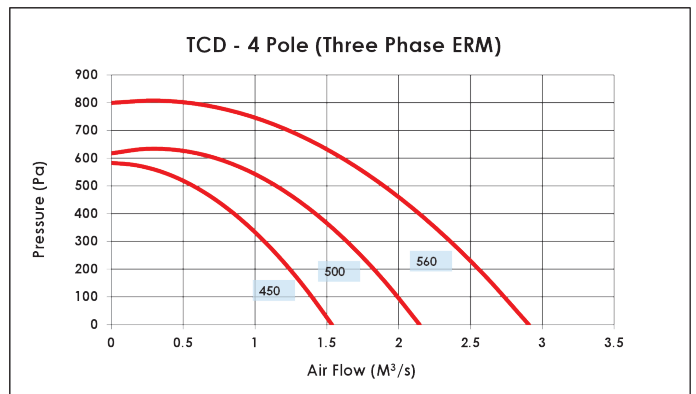
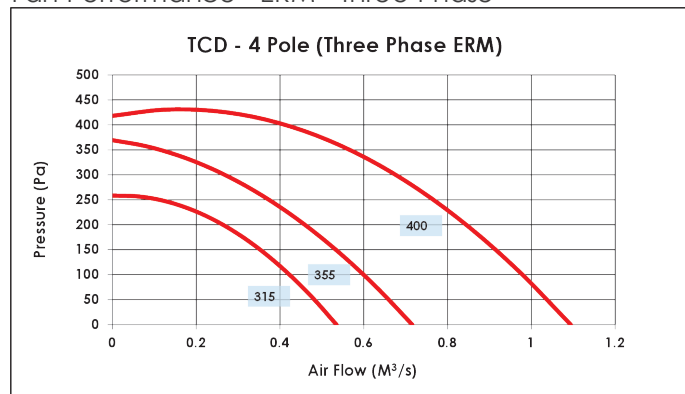
Refer to the latest product datasheet for individual model wiring instructions, data and specifications. Datasheets are available from our electronic selection software **FansSelect** downloadable at www.pacificHVAC.com

Fan Model	Full Load Current	Motor kW	Shaft Revs / sec	dB(A) @ 3m	SPL dB referred to 10 ⁻¹² W Type D: ducted inlet/outlet (LW)							
					63	125	250	500	1K	2K	4K	8K
Single Phase ERM												
TCD315-4E	0.5	0.115	24	45	71	70	65	66	58	53	49	47
TCD315-6E	0.5	0.06	16	38	67	65	59	59	53	47	43	41
TCD355-4E	1.12	0.245	24	45	76	74	71	62	54	52	50	43
TCD355-6E	0.31	0.07	15	39	67	64	64	58	51	46	44	40
TCD400-4E	2.4	0.48	23	49	71	76	73	67	63	57	57	53
TCD400-6E	0.68	0.155	15	41	63	68	65	59	55	49	49	45
TCD450-4E	3	0.68	21	51	71	72	74	71	66	61	60	49
TCD450-6E	1.42	0.3	16	43	71	70	63	63	55	54	50	40
TCD500-4E	5.2	1.43	23	55	73	77	77	74	71	67	64	59
TCD500-6E	2.2	0.5	15	47	65	69	69	66	63	59	56	51
TCD560-6E	4.35	0.78	15	47	64	69	66	66	63	56	55	52
Three Phase ERM												
TCD315-4D	0.35	0.125	24	45	71	70	65	66	58	53	49	47
TCD355-4D	0.52	0.17	23	45	76	74	71	62	54	52	50	43
TCD355-6D	0.22	0.13	20	40	68	65	65	59	52	47	45	41
TCD400-4D	1.41	0.515	24	49	71	76	73	67	63	57	57	53
TCD400-6D	0.7	0.385	21	41	63	68	65	59	55	49	49	45
TCD450-4D	1.48	0.73	23	51	71	72	74	71	66	61	60	49
TCD450-6D	0.75	0.39	14	43	71	70	63	63	55	54	50	40
TCD450-8D	0.3	0.18	12	41	69	68	61	61	53	52	48	38
TCD500-4D	2.8	1.45	23	55	73	77	77	74	71	67	64	59
TCD500-6D	1.1	0.48	15	47	65	69	69	66	63	59	56	51
TCD560-4D	4.7	2.41	23	59	76	81	78	78	75	68	67	64
TCD560-6D	1.68	0.78	15	47	64	69	66	66	63	56	55	52

Fan Performance - ERM - Single Phase



Fan Performance - ERM - Three Phase



Size	A	B	C	D	E	F	G	H	kg
315	570	500	535	500	555	485	520	220	40
355	670	600	635	700	662	592	627	280	65
400	720	650	685	750	760	690	725	300	80
450	770	700	735	800	820	750	785	330	110
500	870	800	835	900	910	840	875	350	120
560	970	900	935	950	970	900	935	400	160