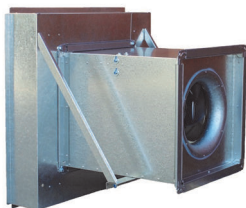


WCE/S Series - square centrifugal wall mount



product WCE/S Series - square centrifugal wall mount		
dimensions mm 315 - 710	poles & duty 4 - 8 / up to 4,500 L/s	
application High performance centrifugal fans for medium to high pressure ducted systems where wall mounting is required.		

WCE/S Series

The WCE/S series is a wall mounted range of centrifugal fans designed for exhaust (E) or supply (S) air applications where higher pressure characteristics are required. The external facing jamb design allows easy installation into wall openings and is designed to integrate with weather louvres and dampers (supplied as ancillaries). All models are built around high performance centrifugal impellers driven TEFC or ERM motors. Note that single phase WCE/S Series fans are only available in ERM models.

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 of TEFC or ERM design. Motor enclosure feature IP55 protection as standard with higher ratings are available on request. Motor windings incorporate class 'F' insulation as standard although class 'H' is readily available. Motor bearings are sealed for life and maintenance free.

Features

High reliability TEFC or ERM motors with sealed for life bearings.
Class 'H' available across all sizes.
EXE, EXD, motors available across the range.
High performance backward curve centrifugal impellers.
Perfectly suited to medium/high volume and pressure applications.
Fully speed controllable.

Testing

Rated fan performance has been determined by testing to ISO 5801 : 2007.
Fan sound data has been determined by testing to ISO 13347 : 2004.

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

It is a condition of our warranty that all equipment supplied is installed according to the requirements of AS/NZS3000:2007 Australian/New Zealand wiring rules.

Suggested Specification

Wall mounted Centrifugal type fans shall be of the WCE/WCS Series manufactured by Pacific HVAC Engineering. Backward Curved Centrifugal impellers shall be driven by External rotor motor or TEFC motors with sealed for life bearings. Housing to be designed to allow access from inside and outside. All fans shall be fully tested in accordance with the requirements of ISO 5801 : 2007 for air flow and ISO 13347 : 2004 for sound.

WCE/S Series - square centrifugal wall mount

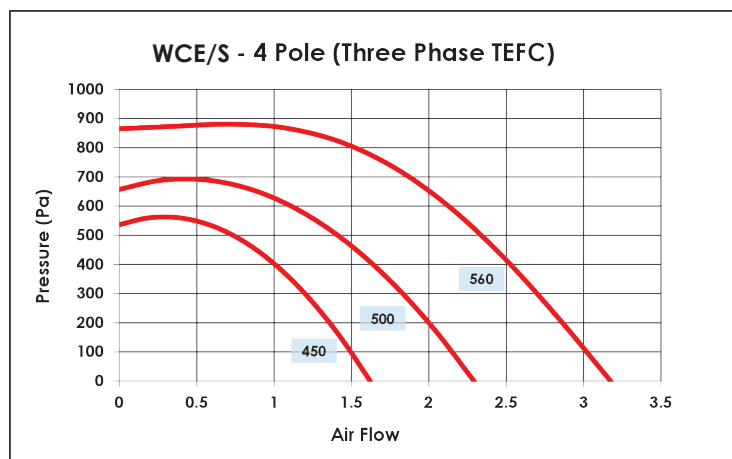
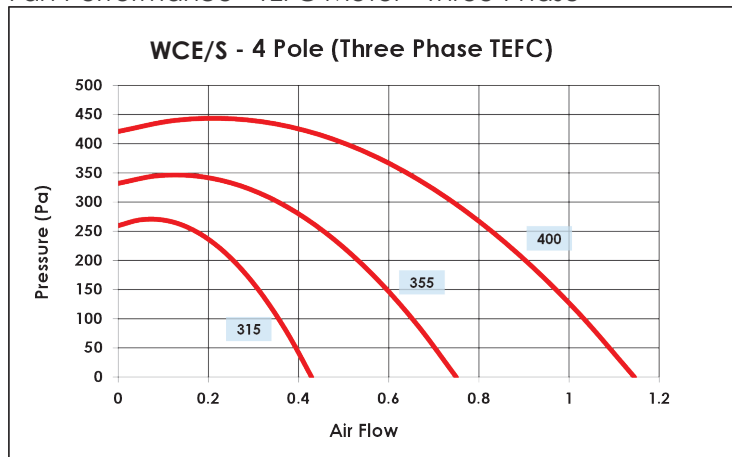
Fan Data - TEFC Motor (All Three Phase)

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
WCE/S315-4DD	1.26	0.55	24	46	77	75	69	66	59	55	54	51
WCE/S315-6DD	0.99	0.37	16	40	67	69	60	60	54	51	46	42
WCE/S 355-4DD	1.26	0.55	24	51	75	78	72	71	61	63	59	52
WCE/S355-6DD	0.99	0.37	16	43	65	69	64	63	58	51	46	44
WCE/S400-4DD	1.26	0.55	24	54	79	81	75	73	66	66	65	58
WCE/S400-6DD	0.99	0.37	16	44	70	72	67	63	58	55	52	47
WCE/S400-8DD	1.23	0.37	12	37	63	65	60	56	51	48	45	40
WCE/S450-4DD	1.7	0.75	24	56	78	81	77	75	69	69	67	63
WCE/S450-6DD	0.99	0.37	16	44	74	75	68	65	59	58	55	50
WCE/S450-8DD	1.23	0.37	12	39	67	68	61	58	52	51	48	43
WCE/S500-4DD	2.37	1.1	24	60	81	85	81	76	74	74	69	71
WCE/S500-6DD	0.99	0.37	16	50	74	80	72	66	63	61	58	55
WCE/S500-8DD	1.23	0.37	12	43	67	73	65	59	56	54	51	48
WCE/S560-4DD	4.38	2.2	24	65	86	93	88	80	78	78	73	72
WCE/S560-6DD	1.66	0.55	16	53	78	82	75	70	66	66	62	61
WCE/S560-8DD	1.23	0.37	12	44	70	72	66	60	58	56	55	50
WCE/S630-4DD	7.68	4	24	68	83	97	90	81	84	81	78	75
WCE/S630-6DD	2.62	1.1	16	57	74	87	81	71	74	71	68	66
WCE/S630-8DD	1.71	0.55	12	51	68	81	75	65	68	65	62	60
WCE/S710-6DD	4.83	2.2	16	61	85	90	86	75	73	71	70	68
WCE/S710-8DD	2.91	1.1	12	47	72	75	72	61	61	57	56	53
WCE/S710-1DD	2.91	0.917	10	42	67	70	67	56	56	52	51	48

Ancillaries

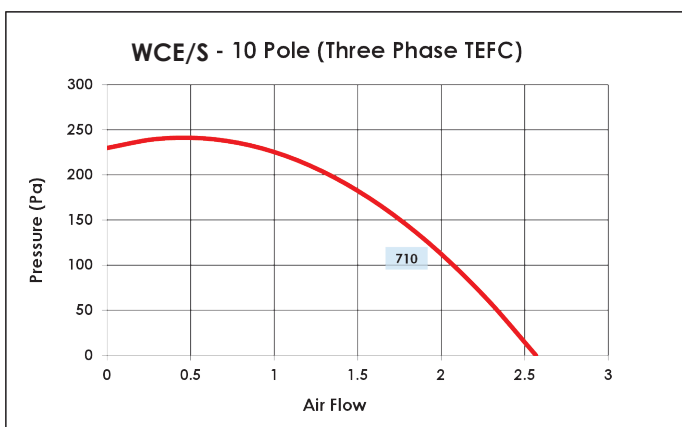
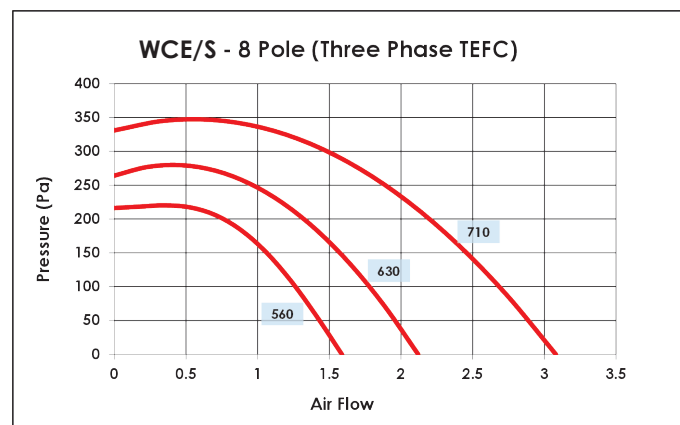
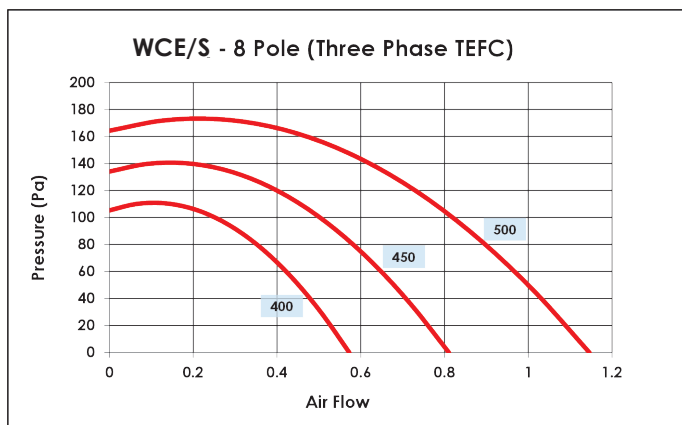
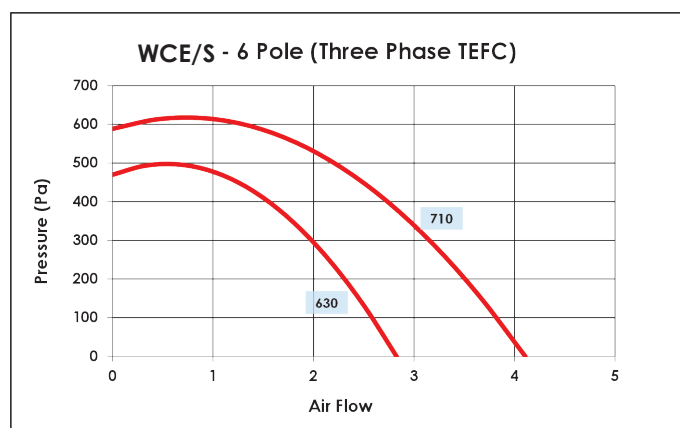
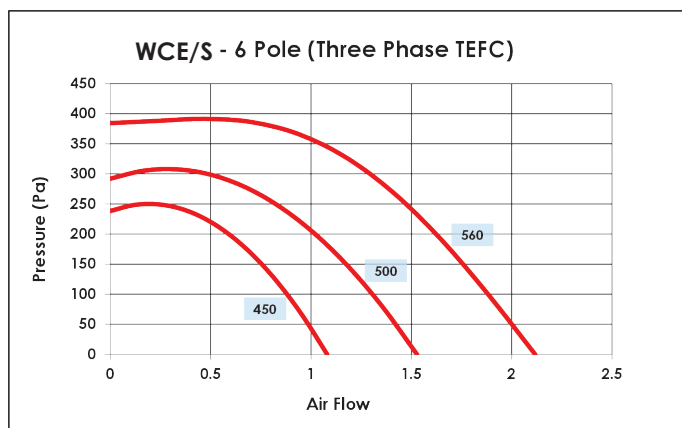
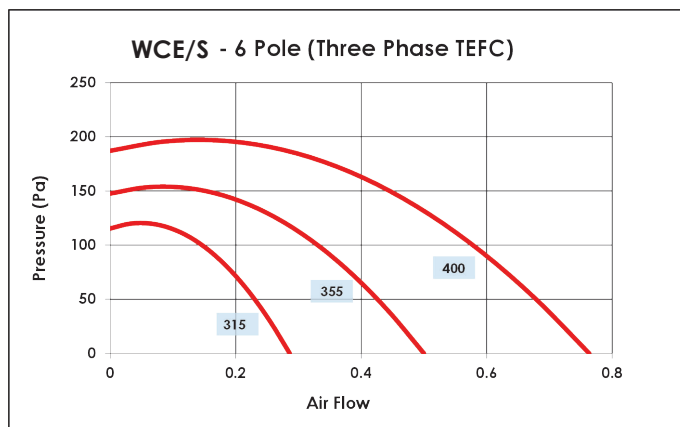
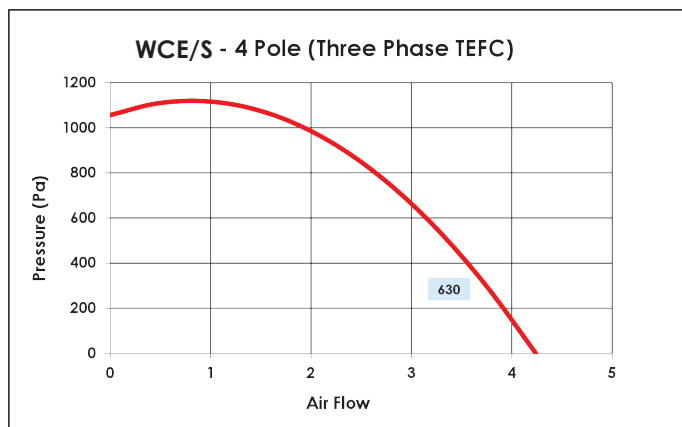


Fan Performance - TEFC Motor - Three Phase



WCE/S Series - square centrifugal wall mount

Fan Performance - TEFC Motor - Three Phase

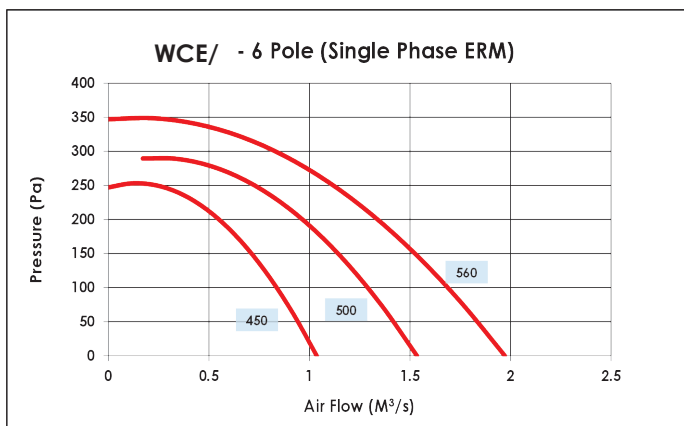
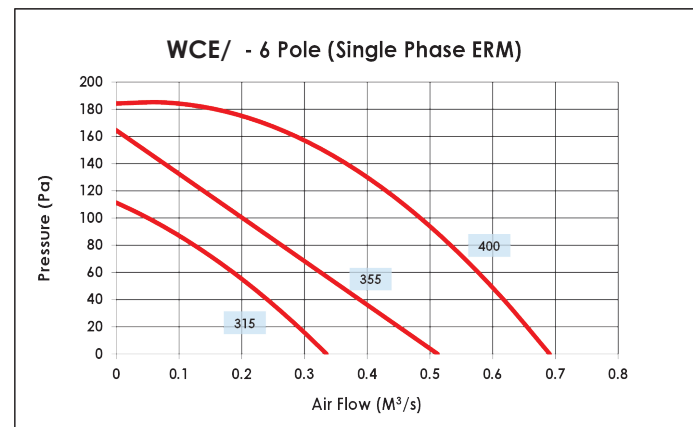
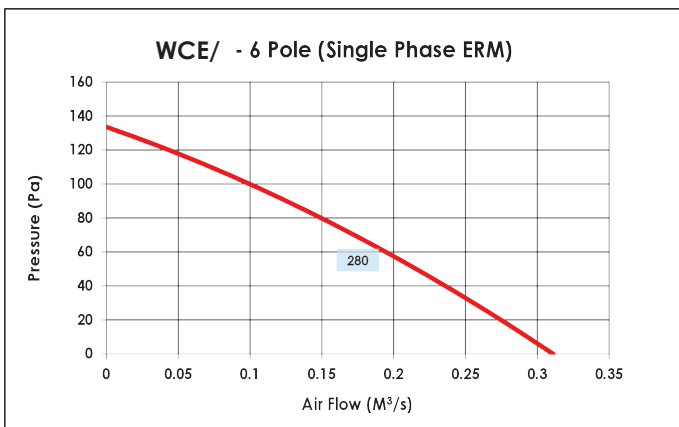
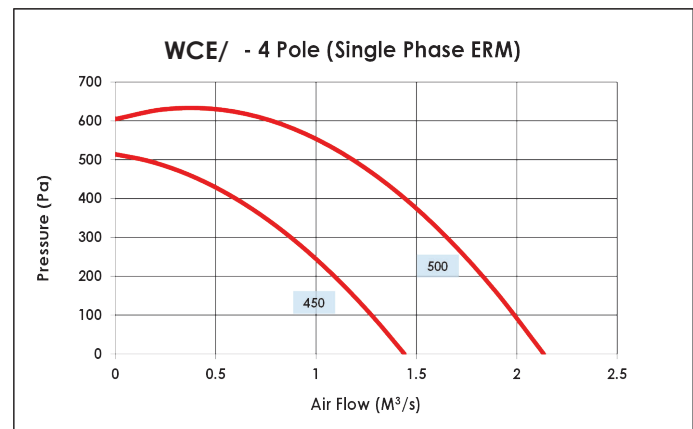
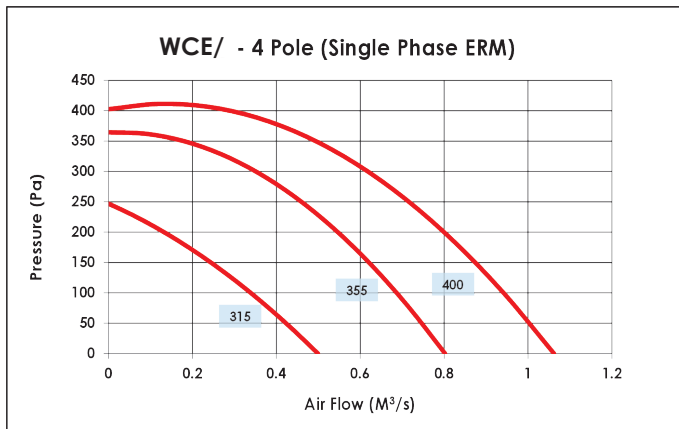


WCE/S Series - square centrifugal wall mount

Fan Data - ERM - Single Phase

Fan Model	RPM	Voltage	Amps	kW	SPL dB referred to 10 ⁻¹² W Type C: ducted inlet, free out.								
					63	125	250	500	1K	2K	4K	8K	dB(A)@3m
WCE/S280-6EE	960	240	0.35	0.038	67	62	60	54	47	44	43	40	35
WCE/S315-4EE	1430	240	0.5	0.115	71	70	65	66	58	53	49	47	45
WCE/S315-6EE	960	240	0.5	0.06	67	65	59	60	53	47	43	41	39
WCE/S355-4EE	1420	240	1.12	0.245	76	74	71	62	54	52	50	43	45
WCE/S355-6EE	870	240	0.31	0.07	67	64	64	58	51	46	44	40	39
WCE/S400-4EE	1370	240	2.4	0.48	71	76	73	67	63	57	57	53	49
WCE/S400-6EE	895	240	0.68	0.155	63	68	65	59	55	49	49	45	41
WCE/S450-4EE	1250	240	3	0.68	71	72	74	71	66	61	60	49	51
WCE/S450-6EE	930	240	1.42	0.3	71	70	63	63	55	54	50	40	43
WCE/S500-4EE	1375	240	5.2	1.43	73	77	77	74	71	67	64	59	55
WCE/S500-6EE	905	240	2.2	0.5	65	69	69	66	63	59	56	51	47
WCE/S560-6EE	885	240	4.35	0.78	64	69	66	66	63	56	55	52	47

Fan Performance - ERM - Single Phase



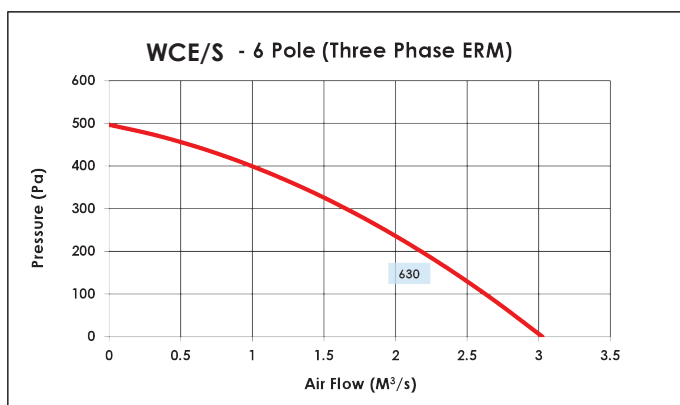
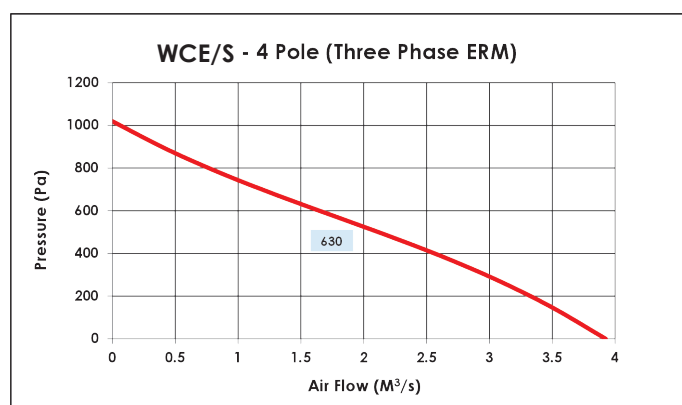
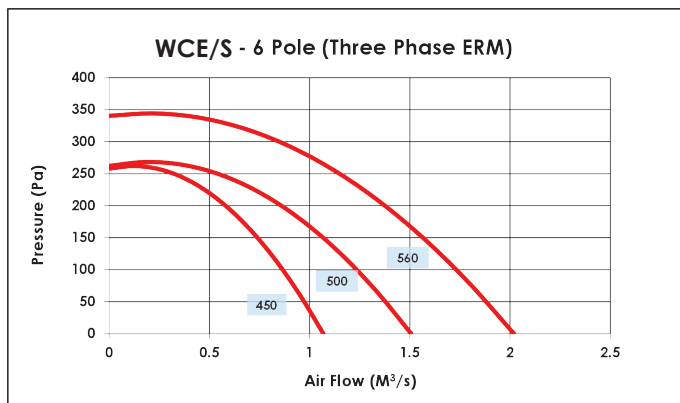
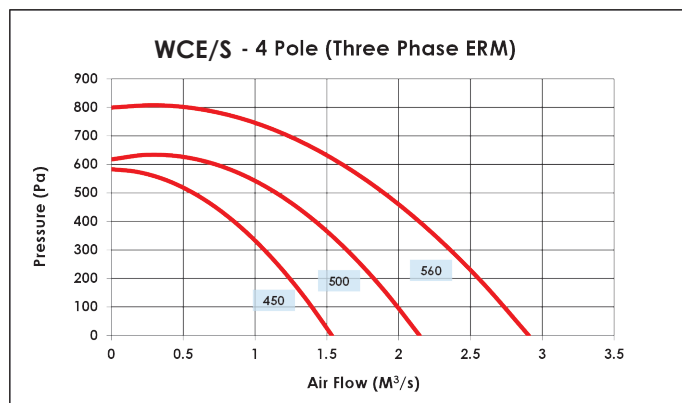
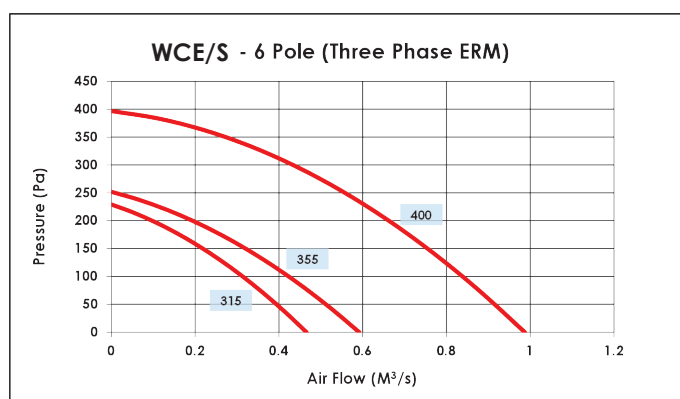
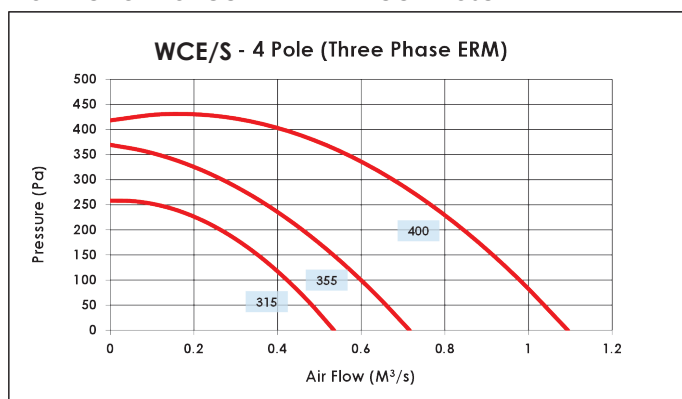
WCE/S Series - square centrifugal wall mount

Fan Performance - ERM - Single Phase

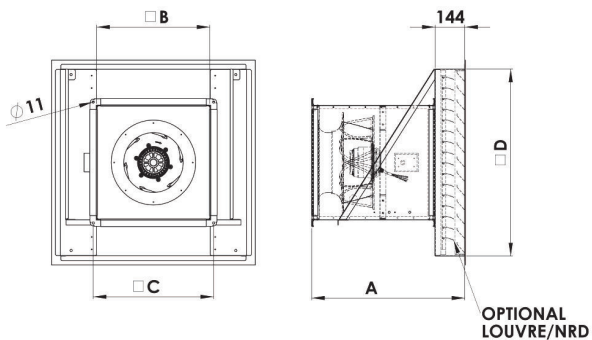
Fan Data - ERM - Three Phase

Fan Model	RPM	Voltage	Amps	kW	SPL dB referred to 10 ⁻¹² W Type C: ducted inlet, free out.								
					63	125	250	500	1K	2K	4K	8K	dB(A)
WCE/S315-4DE	1420	415	0.35	0.125	71	70	65	66	58	53	49	47	45
WCE/S315-6DE	1250	415	0.15	0.085	67	65	59	60	53	47	43	41	39
WCE/S355-4DE	1400	415	0.52	0.17	76	74	71	62	54	52	50	43	45
WCE/S355-6DE	1200	415	0.22	0.13	68	65	65	59	52	47	45	41	40
WCE/S400-4DE	1415	415	1.41	0.515	71	76	73	67	63	57	57	53	49
WCE/S400-6DE	1235	415	0.7	0.385	63	68	65	59	55	49	49	45	41
WCE/S450-4DE	1350	415	1.48	0.73	71	72	74	71	66	61	60	49	51
WCE/S450-6DE	930	415	0.75	0.29	71	70	63	63	55	54	50	40	43
WCE/S500-4DE	1380	415	2.8	1.45	73	77	77	74	71	67	64	59	55
WCE/S500-6DE	915	415	1.2	0.52	65	69	69	66	63	59	56	51	47
WCE/S560-4DE	1350	415	4.7	2.41	76	81	78	78	75	68	67	64	59
WCE/S560-6DE	890	415	1.68	0.78	64	69	66	66	63	56	55	52	47
WCE/S630-4DE	1170	415	10.74	3.31	88	86	87	83	81	76	73	69	65
WCE/S630-6DE	880	415	2.8	1.31	73	72	73	69	64	62	59	55	50

Fan Performance - ERM - Three Phase



WCE/S Series - square centrifugal wall mount



WCE/S					
Size	A	B	C	D	Kg
315	645	410	445	655	36
355	695	450	485	755	42
400	695	500	535	755	45
450	745	550	585	905	57
500	795	650	685	905	67
560	895	700	735	905	81
630	945	800	835	1055	105
710	1045	900	935	1055	122



Ancillary Louvres & Dampers

Louvre

For Exhaust or Supply Applications

Size	Part No.	D
315	LVR-WCE-D0650	650
355	LVR-WCE-D0750	750
400	LVR-WCE-D0750	750
450	LVR-WCE-D0900	900
500	LVR-WCE-D0900	900
560	LVR-WCE-D0900	900
630	LVR-WCE-D1050	1050
710	LVR-WCE-D1050	1050

Damper

For Exhaust Applications Only

Size	Part No.	D
315	NRD-650	650
355	NRD-750	750
400	NRD-750	750
450	NRD-900	900
500	NRD-900	900
560	NRD-900	900
630	NRD-1050	1050
710	NRD-1050	1050