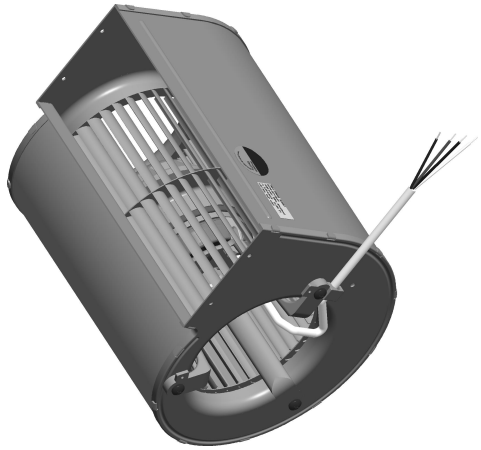
Motor Type AC CENTRIFUGAL FORWARD CURVED FAN 133 x 190

Code:	30-580170.15
Project code:	P12207

Supply			Poles	Speed	Stator	Impeller Type
220-240 V	50/60 Hz	~ 1	2	1	M35	Centrifugal Forward Curved Blade double inlet + scroll

Nominal Data

Nominal voltage	[V]	220-240
Frequency	[Hz]	50/60
Speed	[Rpm]	2515
Power input	[kW]	0.14
Current draw	[A]	0.63
cos φ	[-]	0.96
Max Efficiency (stat A)	[%]	32.4
Efficiency Grade (N)	[-]	44.0
Capacitor	[uF]	6
	[V]	400

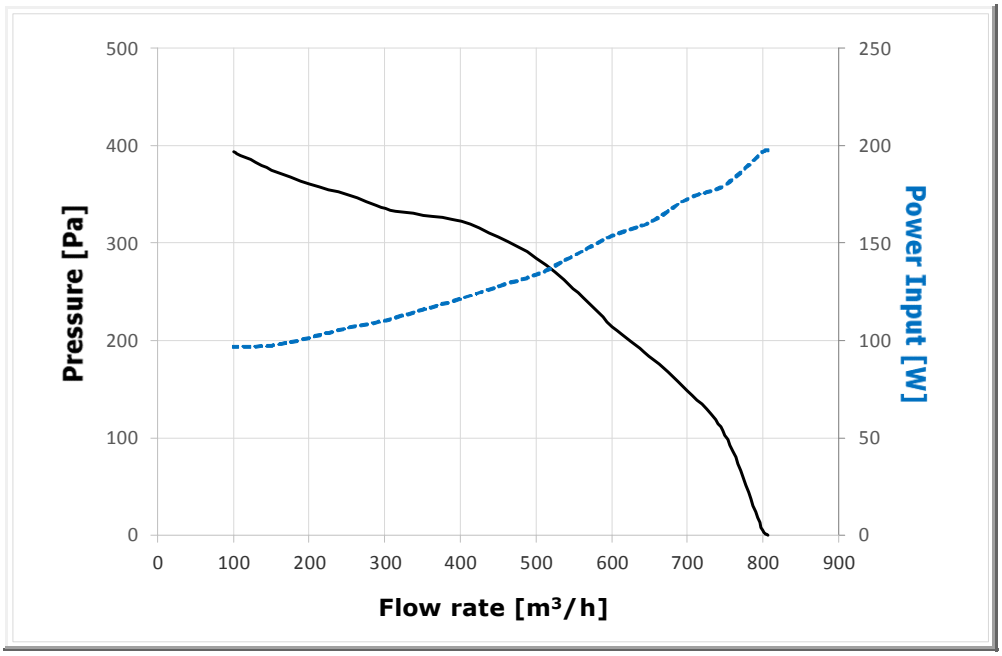


Technical Features

		50 Hz	60 Hz
Max. operating temperature	[°C]	40	40
	[°F]	104	104
Min. operating temperature	[°C]	-30	
	[°F]	-22	
Air flow @ 0 Pa	[m³/h]	905	
Thermal protector		Automatic Reset	
Insulation class		F	
Motor bearing		Ball bearing	
Protection level		IP33	
Product compliant to		CE; EN 60335-1	
Approval		CSA on request	
		VDE on request	
Rotation (seen on rotor side)		Clockwise	
Impeller size (Ø x h)	[mm]	133 x 190	
Impeller material		Metal	
Weight	[kg]	4.22	
Cable lenght	[mm]	250	
Condensate discharge holes (on rotor side)		NO	
ERP compliant		ERP 2015	

Temperature Rise			
Test Setup @ 254 V		50 Hz	60 Hz
Working Point			
ΔT Main	[K]	97	95
ΔT Aux	[K]	80	90
Working Point			
ΔT Main	[K]	40	42
ΔT Aux	[K]	42	47

Air flow performance at 220V 50Hz P12207

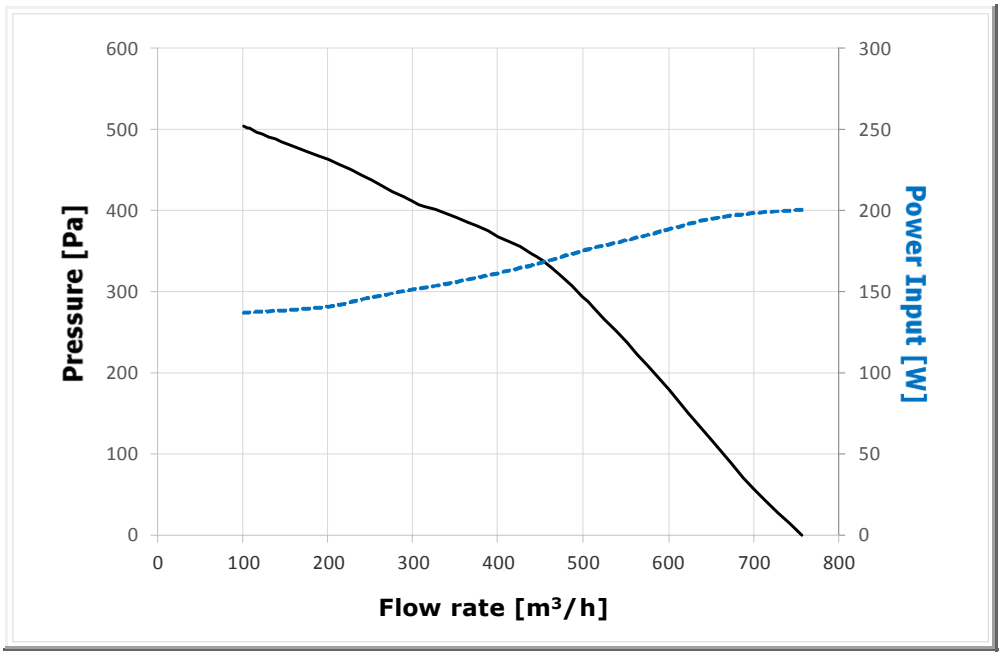


TEST SETUP:

Scroll 133x190

Supply [V]	Supply [Hz]	Speed [rpm]	Power [W]	Current [A]	Efficiency [%]	Flow rate [m³/h]	Pressure [Pa]	Flow rate [cfm]	Pressure [in_H_2O]
220	50	2695	97	0.48	11.3	100	394	59	1.582
220	50	2455	128	0.61	30.0	450	307	265	1.233
220	50	2190	154	0.71	23.2	600	214	353	0.859
220	50	1085	198	0.90	0.0	805	0	474	0.000
220	50	0	216	0.98	Locked rotor test				

Air flow performance at 220V 60Hz P12207

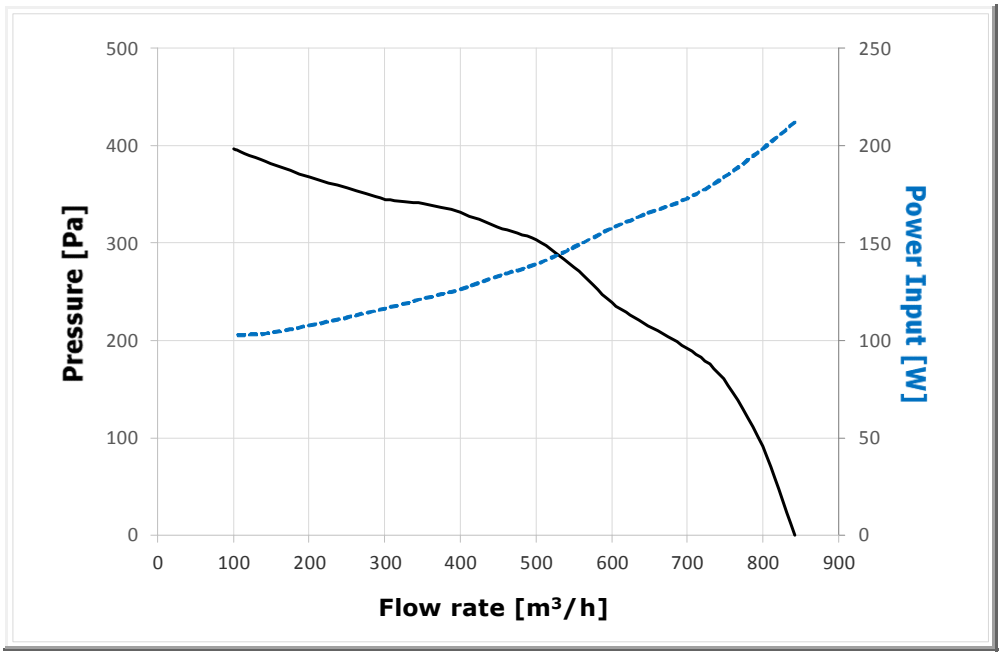


TEST SETUP:

Scroll 133x190

Supply [V]	Supply [Hz]	Speed [rpm]	Power [W]	Current [A]	Efficiency [%]	Flow rate [m³/h]	Pressure [Pa]	Flow rate [cfm]	Pressure [in_H_2O]
220	60	3040	137	0.71	10.2	100	504	59	2.023
220	60	2695	162	0.78	25.4	400	369	235	1.481
220	60	2245	182	0.85	20.0	550	238	324	0.956
220	60	1075	200	0.91	0.0	760	0	447	0.000
220	60	0	210	0.95	Locked rotor test				

Air flow performance at 230V 50Hz P12207

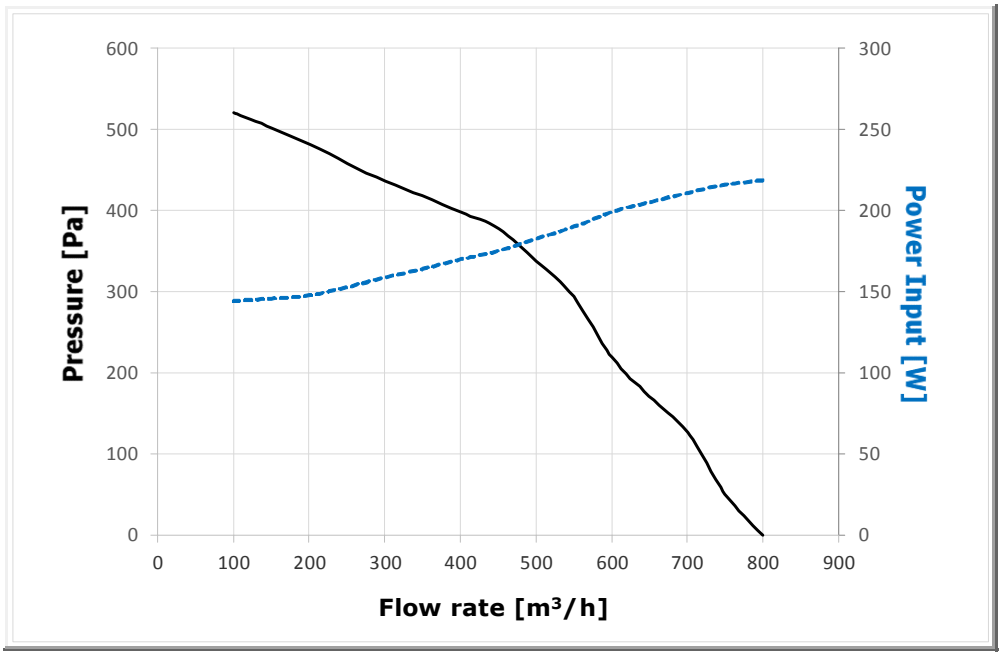


TEST SETUP:

Scroll 133x190

Supply [V]	Supply [Hz]	Speed [rpm]	Power [W]	Current [A]	Efficiency [%]	Flow rate [m³/h]	Pressure [Pa]	Flow rate [cfm]	Pressure [in_H_2O]
230	50	2715	103	0.48	10.8	100	397	59	1.594
230	50	2630	116	0.54	24.7	300	345	177	1.385
230	50	2450	139	0.63	30.3	500	303	294	1.216
230	50	1140	212	0.92	0.0	840	0	494	0.000
230	50	0	237	1.03	Locked rotor test				

Air flow performance at 230V 60Hz P12207

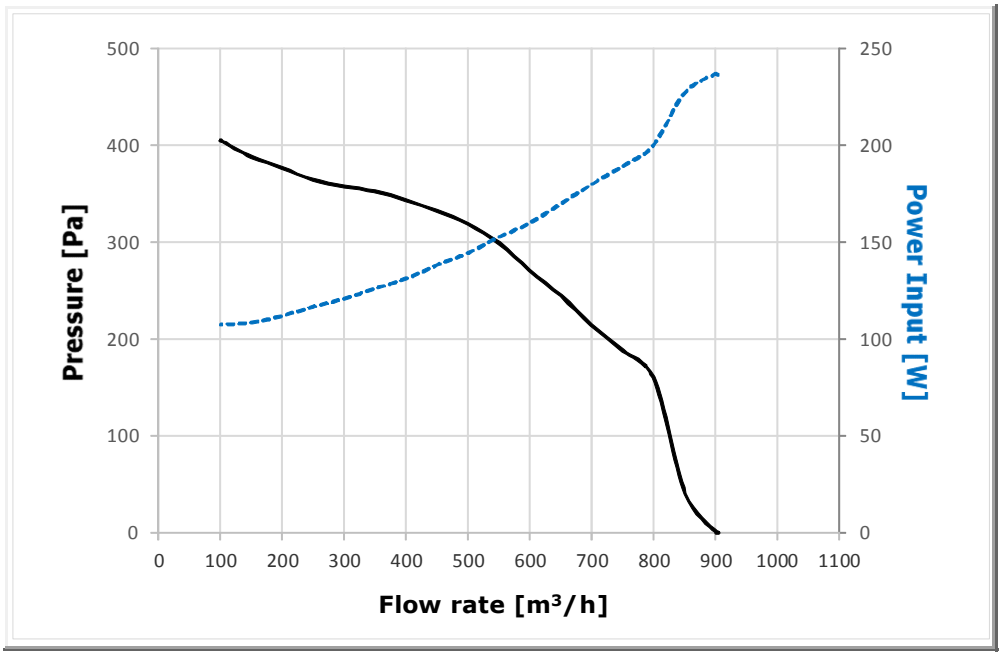


TEST SETUP:

Scroll 133x190

Supply [V]	Supply [Hz]	Speed [rpm]	Power [W]	Current [A]	Efficiency [%]	Flow rate [m³/h]	Pressure [Pa]	Flow rate [cfm]	Pressure [in_H_2O]
230	60	3085	145	0.73	10.0	100	521	59	2.092
230	60	2725	175	0.81	27.0	450	378	265	1.518
230	60	2005	205	0.91	15.1	650	172	383	0.691
230	60	1090	219	0.95	0.0	800	0	471	0.000
230	60	0	230	1.00	Locked rotor test				

Air flow performance at 240V 50Hz P12207

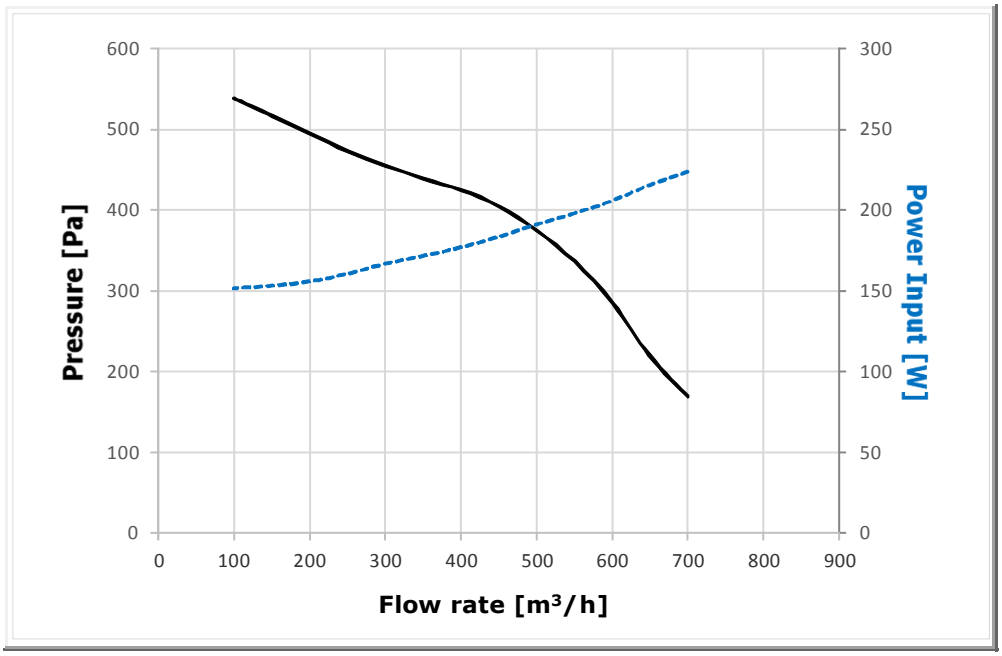


TEST SETUP:

Scroll 133x190

Supply		Speed	Power	Current	Efficiency	Flow rate	Pressure	Flow rate	Pressure
[V]	[Hz]	[rpm]	[W]	[A]	[%]	[m³/h]	[Pa]	[cfm]	[in_H_2O]
240	50	2740	108	0.48	10.4	100	405	59	1.626
240	50	2665	121	0.54	24.7	300	358	177	1.437
240	50	2515	145	0.63	30.6	500	319	294	1.281
240	50	1245	236	0.99	0.0	905	0	533	0.000
240	50	0	259	1.09	Locked rotor test				

Air flow performance at 240V 60Hz P12207



PLEASE NOTE:

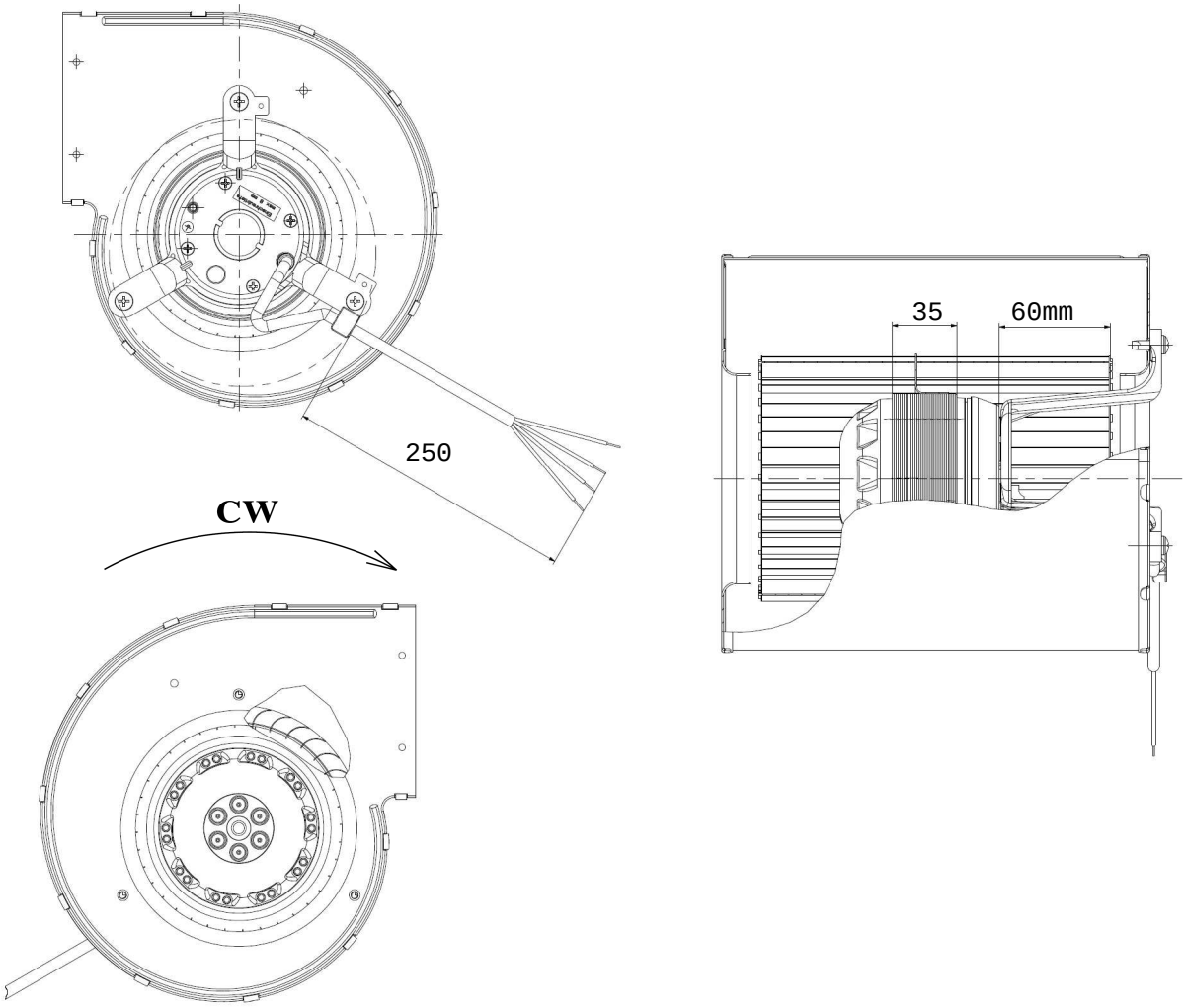
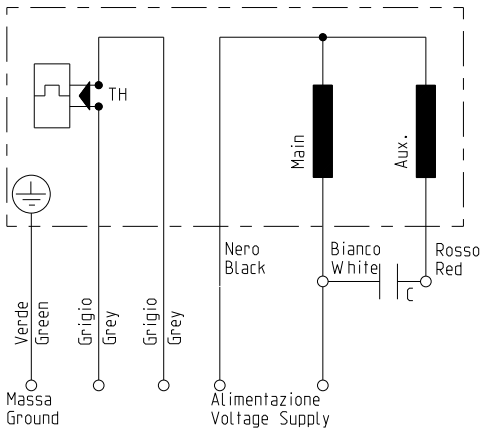
Do not work above 700m³/h

TEST SETUP:

Scroll 133x190

Supply [V]	Supply [Hz]	Speed [rpm]	Power [W]	Current [A]	Efficiency [%]	Flow rate [m³/h]	Pressure [Pa]	Flow rate [cfm]	Pressure [in_H_2O]
240	60	3125	152	0.74	9.8	100	538	59	2.160
240	60	3000	167	0.78	22.7	300	455	177	1.827
240	60	2815	184	0.83	27.6	450	405	265	1.626
240	60	2000	224	0.95	14.7	700	169	412	0.678
240	60	0	253	1.05	Locked rotor test				

Overall Dimensions P12207



Wiring Diagram