

Project	Symbol	Number of pieces	Designer	Design company
	CHEMAC.B 2-200	1		

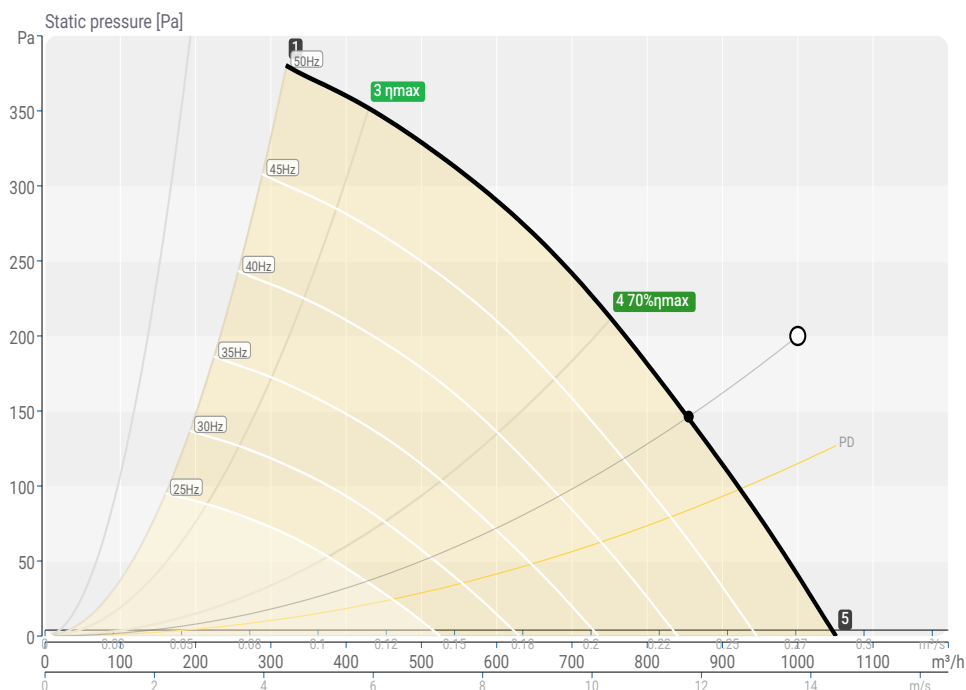
Comments:



CHEMAC.B 2-200

chemical resistant fan

Radial fans designed for pumping aggressive and/ or explosive gases, vapors and mists with a dust content of less than 5 mg/m³ and a maximum medium temperature of 60 deg C.

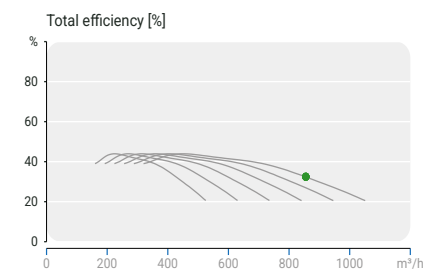
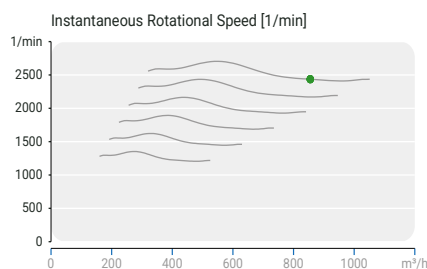
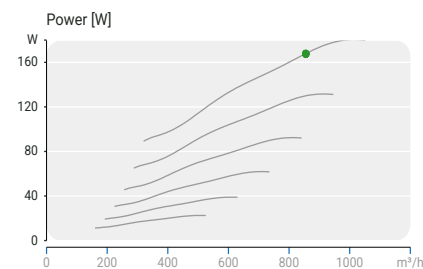
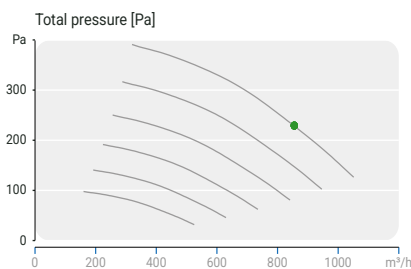


Set operating parameters

Flow	Q	1000	m³/h
Pressure	Δp	200	Pa
Ambient temperature	t _{MED}	20	°C

Parameters at the operating point

Flow	Q	855	m³/h
Speed	v	11.8	m/s
Static pressure	Δp _{ST}	146	Pa
Dynamic pressure	Δp _D	84	Pa
Total pressure	Δp _{TOT}	230	Pa
Absorbed power	P _{ABS}	168	W
Instantaneous Rotational Speed	n	2436	min ⁻¹
SFP	SFP	707	W/(m³/s)
Static efficiency	η _{ST}	20.6	%
Total efficiency	η _{TOT}	32.5	%
Regulation		50	Hz



Sound power values dB(A)

Hz	63	125	250	500	1000	2000	4000	8000	Σ
Inlet - L _{WA5}	50	63	71	71	74	70	62	52	78
Outlet - L _{WA6}	53	66	74	74	77	73	65	55	81
Emitted - L _{WA2}	46	59	67	67	70	66	58	48	74

Sound pressure level dB(A)

Hz	63	125	250	500	1000	2000	4000	8000	Σ
Inlet - L _{PA5}	43	56	64	64	67	63	55	45	71
Outlet - L _{PA6}	46	59	67	67	70	66	58	48	74
Emitted - L _{PA2}	39	52	60	60	63	59	51	41	67

Sound pressure level was determined for conditions of distance from the fan 3m, directional coefficient Q: 2, sound wave interference, equivalent absorption area 20m² Sabine

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Basic technical information

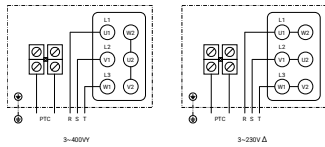
Maximum Airflow Volume	Q	1050	m ³ /h
Maximum Static Pressure	Δp_{MAX}	380	Pa
Nominal power	P _{NOM}	180	W
Nominal Rotational Speed	n _{NOM}	2710	min ⁻¹
Nominal current	I _{NOM}	0.55	A
Nominal voltage	U _{NOM}	400	V
Number of phases	~	3	
Nominal frequency	f _{NOM}	50	Hz
Sound pressure level from the housing	L _{PA2}	65	dB(A)
Diameter	Ø	160	mm
Unit weight	m	9	kg

Technical specifications

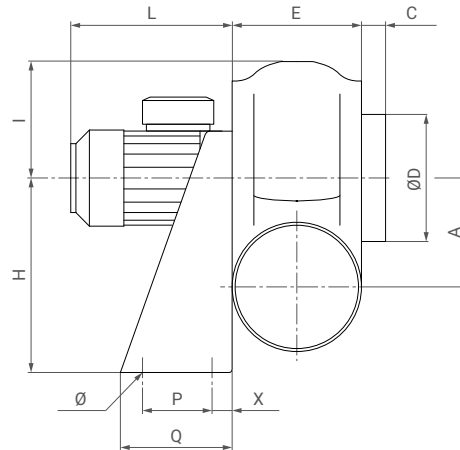
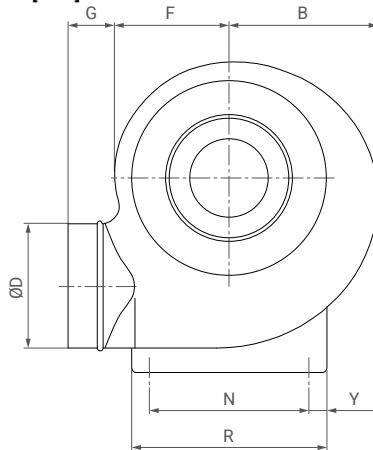
Maximum Achievable Rotational Speed	n _{MAX}	2710	min ⁻¹
Maximum operating current	I _{OPER}	0.55	A
Maximum frequency in regulation	f _{MAX}	50	Hz
Minimum operating temperature	t _{OPmin}	-20	°C
Maximum operating temperature	t _{OPmax}	60	°C
Maximum medium temperature	t _{MEDmax}	60	°C
Maximum ambient temperature	t _{AMBmax}	60	°C
Maximum medium temperature at regulation	t _{MEDmaxR}	60	°C
Maximum ambient temperature at regulation	t _{AMBmaxR}	60	°C
Motor type		AC	
Type of motor control		Hz	
Motor insulation class		F	
Motor protection class		IP55	
Protection class of the device		IP55	
Unit weight	m	9	kg

Designed accessories

Electrical diagram



Dimensions [mm]



A	B	C	D	E	F	G	H	I	L	N	O	P	Q	R	X	Y
140	180	35	160	160	138	55	250	150	195	200	11	100	140	235	20	17,5