MDI

Accessories


AB


INT


RAI


SFC

MEDIUM PRESSURE FAN WITH FORWARD IMPELLER AND IN STAINLESS STEEL CONSTRUCTION

MANUFACTURING FEATURES:

• Welded stainless steel AISI 304 housing.
• Stainless steel simple inlet forward curved impeller.
• Standard asynchronous squirrel-cage motor with IP-55 protection and Class F insulation. Manufactured with standard voltages: 230V 50Hz for single phase motors, 230/400V 50Hz for three phase motors.

• Available positions (to be indicated in case of order): LG270, LG0, LG45, LG90, LG135, LG180, LG225, LG315, RD0, RD45, RD90, RD135, RD180, RD225, RD270, RD315.
• The indicated codes correspond to the model in position LG270.

APPLICATIONS:

Designed for inline installation, they are suitable for:
• Industrial applications, extraction or injection of air.
• Cooling of machines and parts.
• Clean air transport.
• Corrosive air transport.
• Maximum working temperature: carried air: 130ºC, ambient: 1ph 50ºC, 3ph 60ºC.

UNDER REQUEST:

• 60Hz fans and special voltages.
• 2 speed motors (three phase motors).

Technical data

Single-phase motor / 2 poles

Code	Model	R.P.M.	Rated I. A 230V	Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
300716100	MDI 10/5 M2 0,12kW	2800	0,94	0,12	300	26	2,40	1
300716400	MDI 13/6 M2 0,18kW	2790	1,36	0,18	600	37	5,30	1
300716600	MDI 13/8 M2 0,25kW	2790	1,77	0,25	660	38	9,40	1
300716700	MDI 16/8 M2 0,37kW	2760	2,47	0,37	1.200	43	6,20	1
300716900	MDI 18/8 M2 0,55kW	2800	3,71	0,55	1.380	50	10,20	1
300717100	MDI 20/10 M2 1,1kW	2800	6,71	1,10	2.160	52	19	1

Single-phase motor / 4 poles

Code	Model	R.P.M.	Rated I. A 230V	Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
300716300	MDI 13/6 M4 0,12kW	1380	0,93	0,12	380	22	4,90	1
300716500	MDI 13/8 M4 0,12kW	1380	0,93	0,12	390	26	5,80	1
300716800	MDI 16/8 M4 0,12kW	1380	0,93	0,12	660	30	9	1
300717000	MDI 18/8 M4 0,25kW	1410	1,6	0,25	900	31	9,70	1
300717200	MDI 20/10 M4 0,25kW	1410	1,6	0,25	1.200	32	11	1

Three-phase motor / 2 poles

Code	Model	R.P.M.	Rated I. A		Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
			230V	400V					
300717600	MDI 10/5 T2 0,12kW	2800	0,64	0,36	0,12	300	26	2,40	2
300717800	MDI 13/6 T2 0,18kW	2800	0,87	0,51	0,18	600	37	5,30	2
300718100	MDI 13/8 T2 0,25kW	2800	1,12	0,65	0,25	660	38	9,40	2
300718200	MDI 16/8 T2 0,37kW	2800	1,58	0,91	0,37	1.200	43	6,20	2
300718400	MDI 18/8 T2 0,55kW	2800	2,23	1,29	0,55	1.380	50	10,20	2
300718600	MDI 20/10 T2 1,1kW	2800	4,05	2,33	1,10	2.160	52	19	2

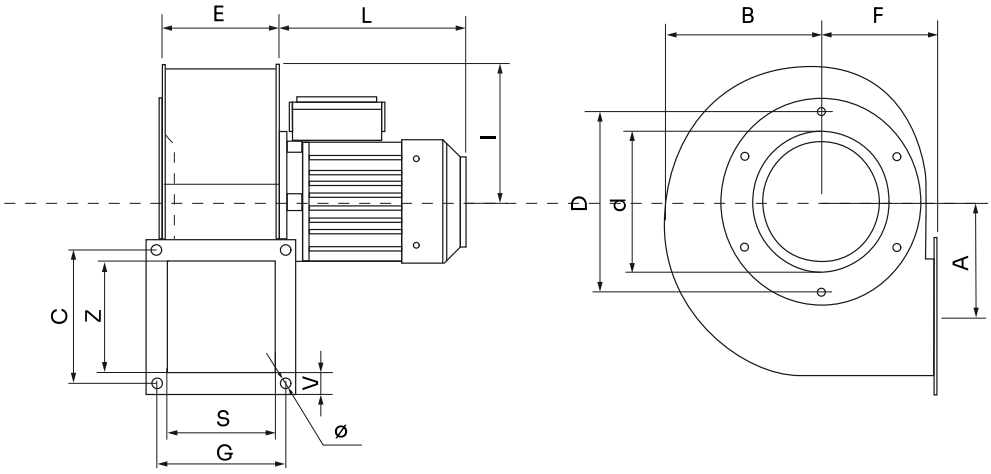
Three-phase motor / 4 poles

Code	Model	R.P.M.	Rated I. A		Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
			230V	400V					
300717900	MDI 13/6 T4 0,12kW	1400	0,8	0,46	0,12	380	22	4,90	2

Code	Model	R.P.M.	Rated I. A		Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
			230V	400V					
300718000	MDI 13/8 T4 0,12kW	1400	0,8	0,46	0,12	390	26	5,80	2
300718300	MDI 16/8 T4 0,12kW	1400	0,8	0,46	0,12	660	30	9	2
300718500	MDI 18/8 T4 0,25kW	1400	1,38	0,79	0,25	900	31	9,70	2
300718700	MDI 20/10 T4 0,25kW	1400	1,38	0,79	0,25	1.200	32	11	2

Notes:
** Total sound pressure level at the point of maximum flow measured in dB(A) in the suction measured in free field at a distance of 6m from the source

Dimensions



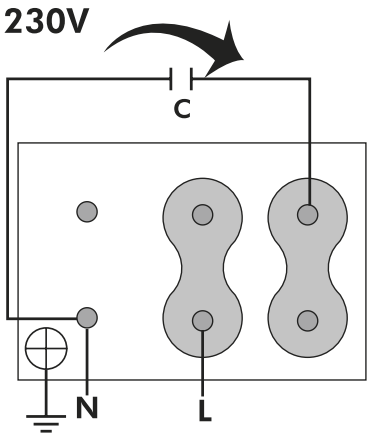
Model	A	B	C	D	E	F	G	I	L
MDI 10/5 M2 0,12kW	65	90	85	115	72	80	85	77	165
MDI 10/5 T2 0,12kW	65	90	85	115	72	80	85	77	165
MDI 13/6 M2 0,18kW	92	125	110	158	92	104	110	110	190
MDI 13/6 M4 0,12kW	92	125	110	158	92	104	110	110	190
MDI 13/6 T2 0,18kW	92	125	110	158	92	104	110	110	190
MDI 13/6 T4 0,12kW	92	125	110	158	92	104	110	110	190
MDI 13/8 M2 0,25kW	92	125	110	158	112	104	130	110	190
MDI 13/8 M4 0,12kW	92	125	110	158	112	104	130	110	190
MDI 13/8 T2 0,25kW	92	125	110	158	112	104	130	110	190
MDI 13/8 T4 0,12kW	92	125	110	158	112	104	130	110	190
MDI 16/8 M2 0,37kW	115	158	133	182	114	120	133	134	215
MDI 16/8 M4 0,12kW	115	158	133	182	114	120	133	134	190
MDI 16/8 T2 0,37kW	115	158	133	182	114	120	133	134	215
MDI 16/8 T4 0,12kW	115	158	133	182	114	120	133	134	190
MDI 18/8 M2 0,55kW	115	158	133	200	114	120	133	134	215
MDI 18/8 M4 0,25kW	115	158	133	200	114	120	133	134	190
MDI 18/8 T2 0,55kW	115	158	133	200	114	120	133	134	215
MDI 18/8 T4 0,25kW	115	158	133	200	114	120	133	134	190
MDI 20/10 M2 1,1kW	145	190	165	220	144	155	165	160	250
MDI 20/10 M4 0,25kW	145	190	165	220	144	155	165	160	190
MDI 20/10 T2 1,1kW	145	190	165	220	144	155	165	160	250
MDI 20/10 T4 0,25kW	145	190	165	220	144	155	165	160	190

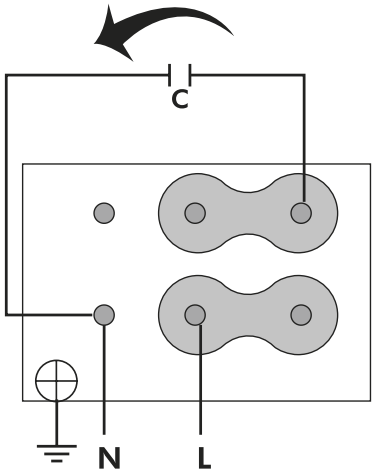
Model	S	V	Z	d	Ø
MDI 10/5 M2 0,12kW	70	15	70	75	7x14
MDI 10/5 T2 0,12kW	70	15	70	75	7x14

Model	S	V	Z	d	Ø
MDI 13/6 M2 0,18kW	90	20	90	101	9x16
MDI 13/6 M4 0,12kW	90	20	90	101	9x16
MDI 13/6 T2 0,18kW	90	20	90	101	9x16
MDI 13/6 T4 0,12kW	90	20	90	101	9x16
MDI 13/8 M2 0,25kW	110	20	90	101	9x16
MDI 13/8 M4 0,12kW	110	20	90	101	9x16
MDI 13/8 T2 0,25kW	110	20	90	101	9x16
MDI 13/8 T4 0,12kW	110	20	90	101	9x16
MDI 16/8 M2 0,37kW	110	22.5	110	120	9x16
MDI 16/8 M4 0,12kW	110	22.5	110	120	9x16
MDI 16/8 T2 0,37kW	110	22.5	110	120	9x16
MDI 16/8 T4 0,12kW	110	22.5	110	120	9x16
MDI 18/8 M2 0,55kW	110	22.5	110	140	9x16
MDI 18/8 M4 0,25kW	110	22.5	110	140	9x16
MDI 18/8 T2 0,55kW	110	22.5	110	140	9x16
MDI 18/8 T4 0,25kW	110	22.5	110	140	9x16
MDI 20/10 M2 1,1kW	140	25	140	170	9x16
MDI 20/10 M4 0,25kW	140	25	140	170	9x16
MDI 20/10 T2 1,1kW	140	25	140	170	9x16
MDI 20/10 T4 0,25kW	140	25	140	170	9x16

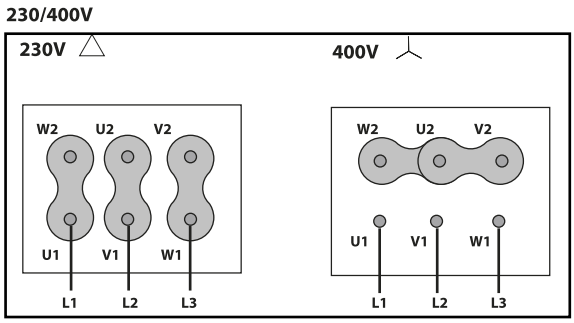
Wiring diagram

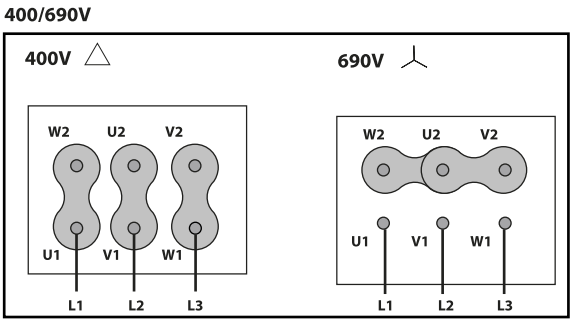
Wiring diagram Nº 1





Wiring diagram Nº 2

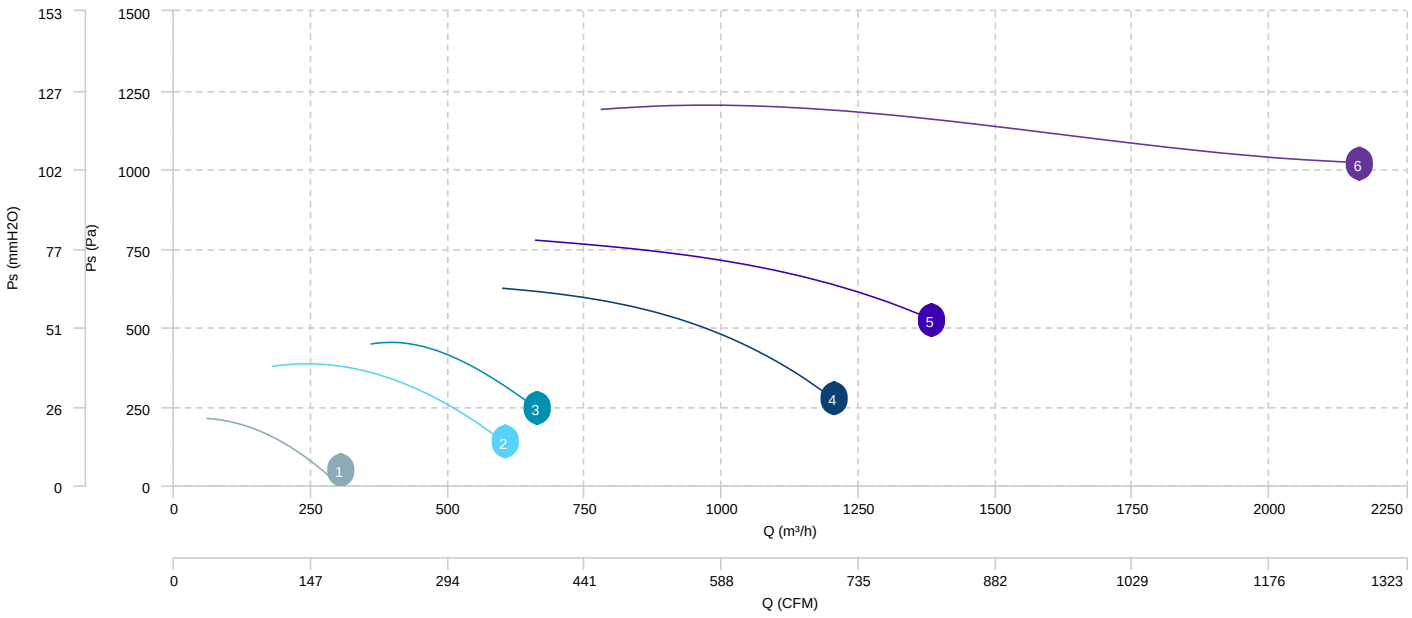




CHARACTERISCTIC CURVE

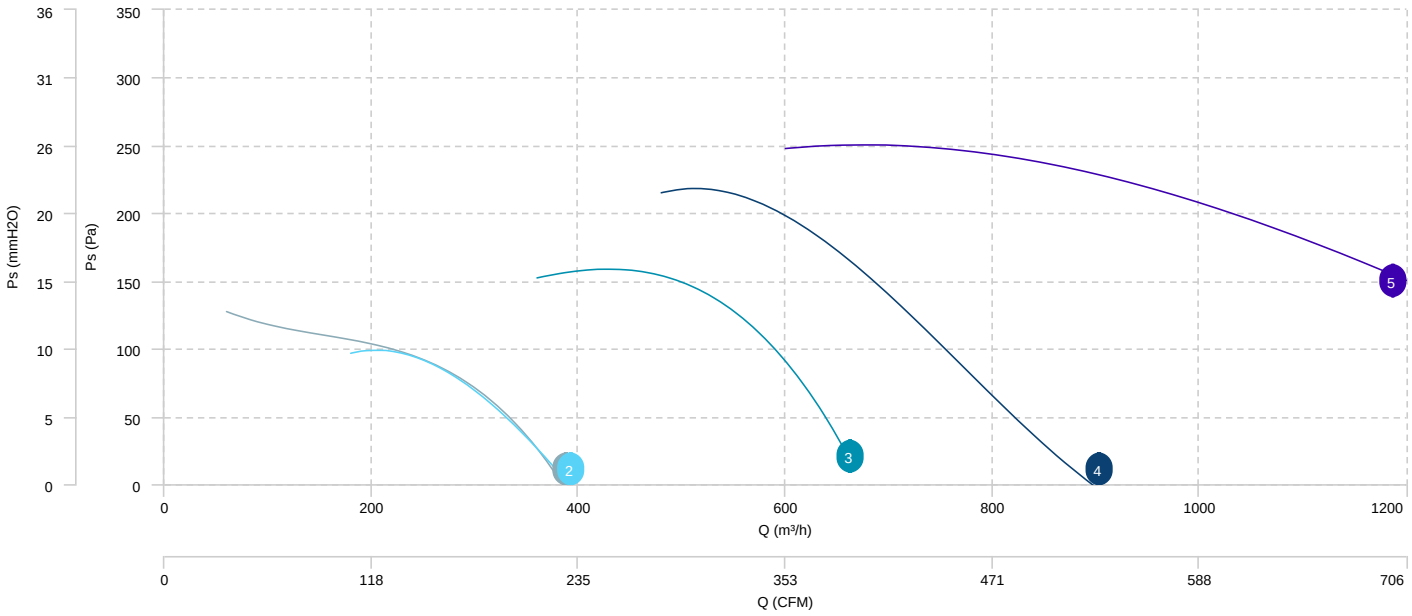
1	MDI 10/5 M2 0,12kW	2	MDI 13/6 M2 0,18kW	3	MDI 13/8 M2 0,25kW	4	MDI 16/8 M2 0,37kW
5	MDI 18/8 M2 0,55kW	6	MDI 20/10 M2 1,1kW				

AIR FLOW - PRESSURE



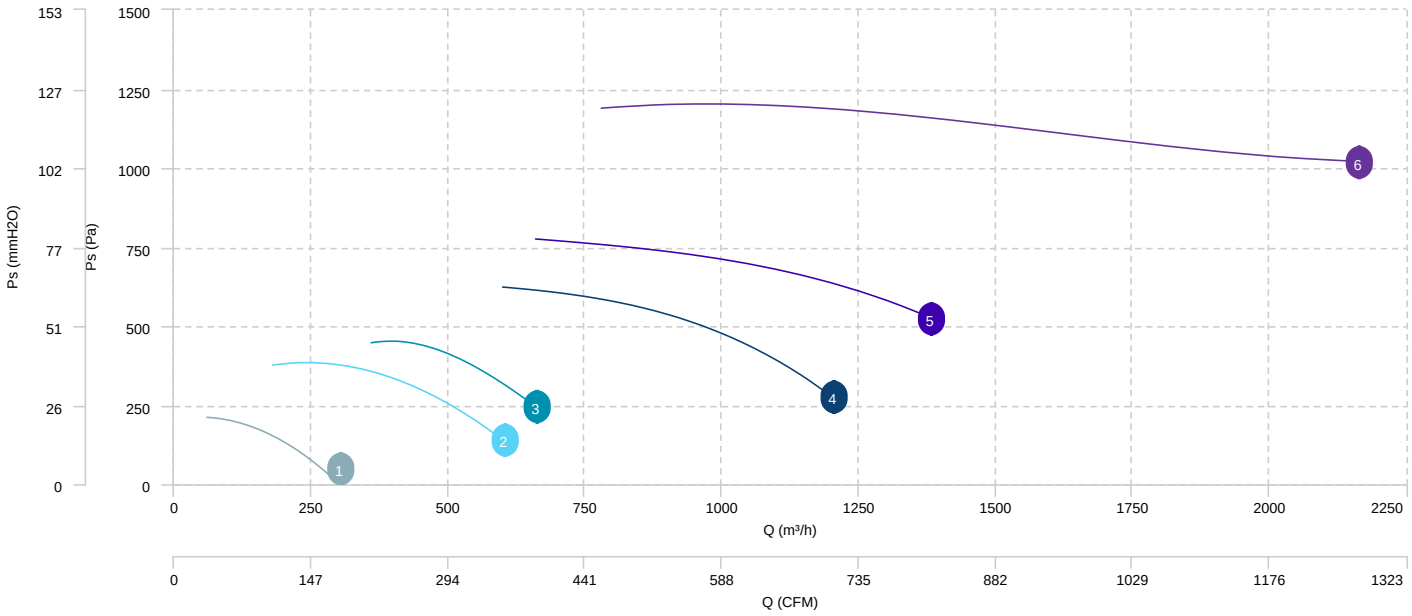
1	MDI 13/6 M4 0,12kW
2	MDI 13/8 M4 0,12kW
3	MDI 16/8 M4 0,12kW
4	MDI 18/8 M4 0,25kW
5	MDI 20/10 M4 0,25kW

AIR FLOW - PRESSURE



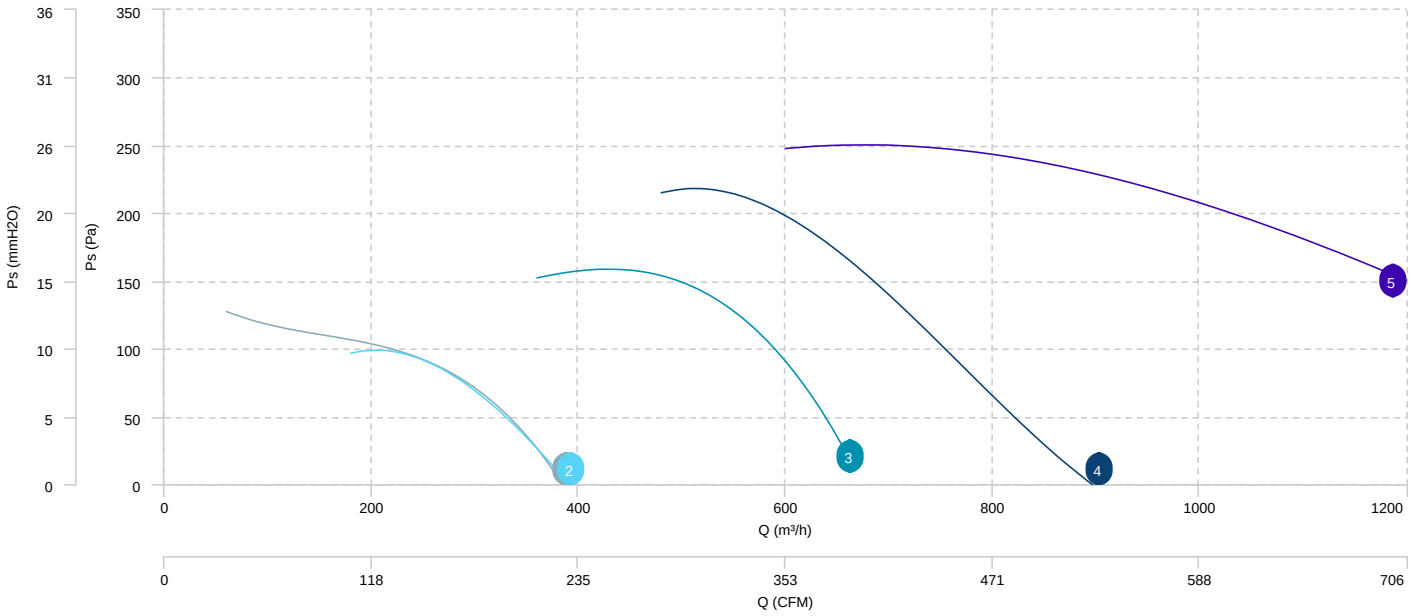
1	MDI 10/5 T2 0,12kW	2	MDI 13/6 T2 0,18kW	3	MDI 13/8 T2 0,25kW	4	MDI 16/8 T2 0,37kW
5	MDI 18/8 T2 0,55kW	6	MDI 20/10 T2 1,1kW				

AIR FLOW - PRESSURE



1	MDI 13/6 T4 0,12kW	2	MDI 13/8 T4 0,12kW	3	MDI 16/8 T4 0,12kW	4	MDI 18/8 T4 0,25kW
5	MDI 20/10 T4 0,25kW						

AIR FLOW - PRESSURE



Sound data

Sound / 2 poles

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
MDI 10/5 M2 0,12kW	Inlet	-	-	-	-	-	-	-	-	52
	Radiated	-	-	-	-	-	-	-	-	52
MDI 10/5 T2 0,12kW	Inlet	-	-	-	-	-	-	-	-	52
	Radiated	-	-	-	-	-	-	-	-	52
MDI 13/6 M2 0,18kW	Inlet	-	-	-	-	-	-	-	-	63
	Radiated	-	-	-	-	-	-	-	-	63
MDI 13/6 T2 0,18kW	Inlet	-	-	-	-	-	-	-	-	63
	Radiated	-	-	-	-	-	-	-	-	63
MDI 13/8 M2 0,25kW	Inlet	-	-	-	-	-	-	-	-	64
	Radiated	-	-	-	-	-	-	-	-	67
MDI 13/8 T2 0,25kW	Inlet	-	-	-	-	-	-	-	-	64
	Radiated	-	-	-	-	-	-	-	-	67
MDI 16/8 M2 0,37kW	Inlet	-	-	-	-	-	-	-	-	69
	Radiated	-	-	-	-	-	-	-	-	69
MDI 16/8 T2 0,37kW	Inlet	-	-	-	-	-	-	-	-	69
	Radiated	-	-	-	-	-	-	-	-	69
MDI 18/8 M2 0,55kW	Inlet	-	-	-	-	-	-	-	-	76
	Radiated	-	-	-	-	-	-	-	-	76
MDI 18/8 T2 0,55kW	Inlet	-	-	-	-	-	-	-	-	76
	Radiated	-	-	-	-	-	-	-	-	76
MDI 20/10 M2 1,1kW	Inlet	-	-	-	-	-	-	-	-	78
	Radiated	-	-	-	-	-	-	-	-	78
MDI 20/10 T2 1,1kW	Inlet	-	-	-	-	-	-	-	-	78
	Radiated	-	-	-	-	-	-	-	-	78

Sound / 4 poles

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
MDI 13/6 M4 0,12kW	Inlet	-	-	-	-	-	-	-	-	48
	Radiated	-	-	-	-	-	-	-	-	48
MDI 13/6 T4 0,12kW	Inlet	-	-	-	-	-	-	-	-	48
	Radiated	-	-	-	-	-	-	-	-	48

Sound power Lw dB (A)										
Model		**63 Hz**	**125 Hz**	**250 Hz**	**500 Hz**	**1000 Hz**	**2000 Hz**	**4000 Hz**	**8000 Hz**	**Total**
MDI 13/8 M4 0,12kW	Inlet	-	-	-	-	-	-	-	-	52
	Radiated	-	-	-	-	-	-	-	-	52
MDI 13/8 T4 0,12kW	Inlet	-	-	-	-	-	-	-	-	52
	Radiated	-	-	-	-	-	-	-	-	52
MDI 16/8 M4 0,12kW	Inlet	-	-	-	-	-	-	-	-	56
	Radiated	-	-	-	-	-	-	-	-	56
MDI 16/8 T4 0,12kW	Inlet	-	-	-	-	-	-	-	-	56
	Radiated	-	-	-	-	-	-	-	-	56
MDI 18/8 M4 0,25kW	Inlet	-	-	-	-	-	-	-	-	57
	Radiated	-	-	-	-	-	-	-	-	57
MDI 18/8 T4 0,25kW	Inlet	-	-	-	-	-	-	-	-	57
	Radiated	-	-	-	-	-	-	-	-	57
MDI 20/10 M4 0,25kW	Inlet	-	-	-	-	-	-	-	-	58
	Radiated	-	-	-	-	-	-	-	-	58
MDI 20/10 T4 0,25kW	Inlet	-	-	-	-	-	-	-	-	58
	Radiated	-	-	-	-	-	-	-	-	58