

MOFA[®]



DD/DS/DDEM DIRECT DRIVEN CENTRIFUGAL FANS

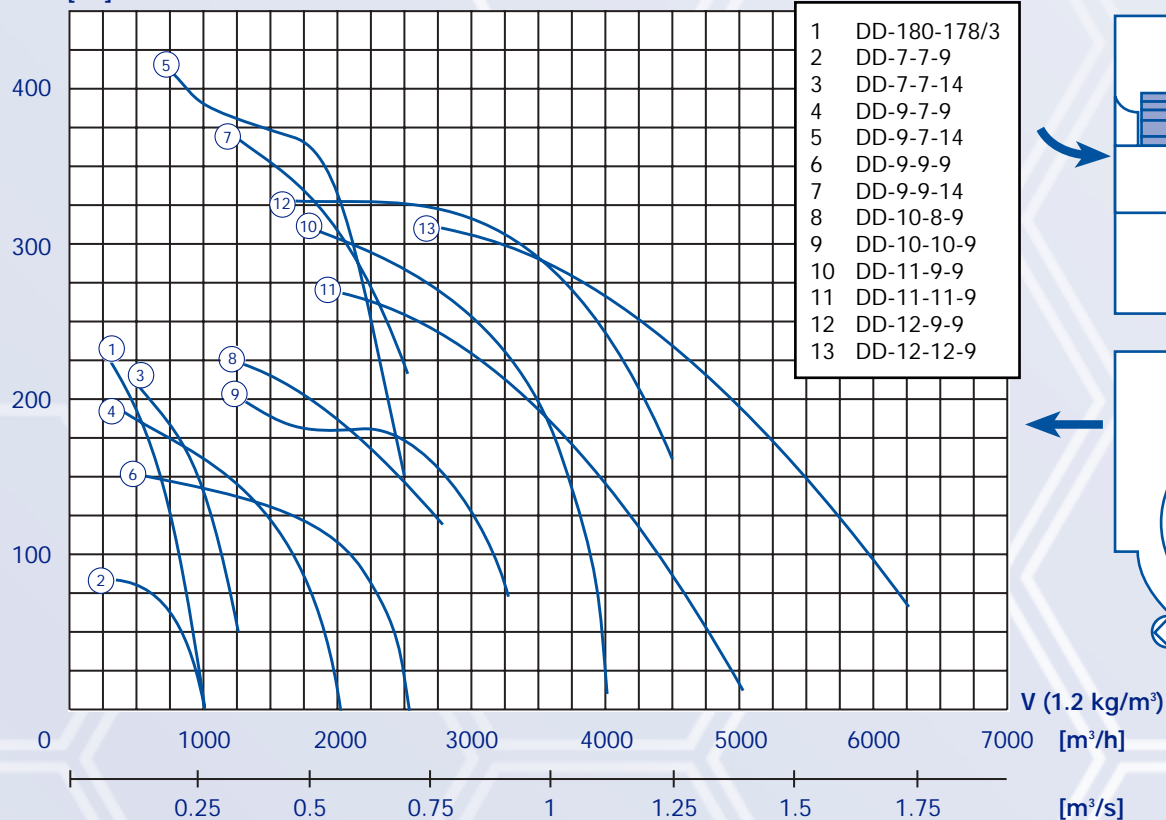
DD/DS/DDEM DIRECT DRIVEN CENTRIFUGAL FANS

Fan Selection Curves

DD - FORWARD CURVED

Double inlet

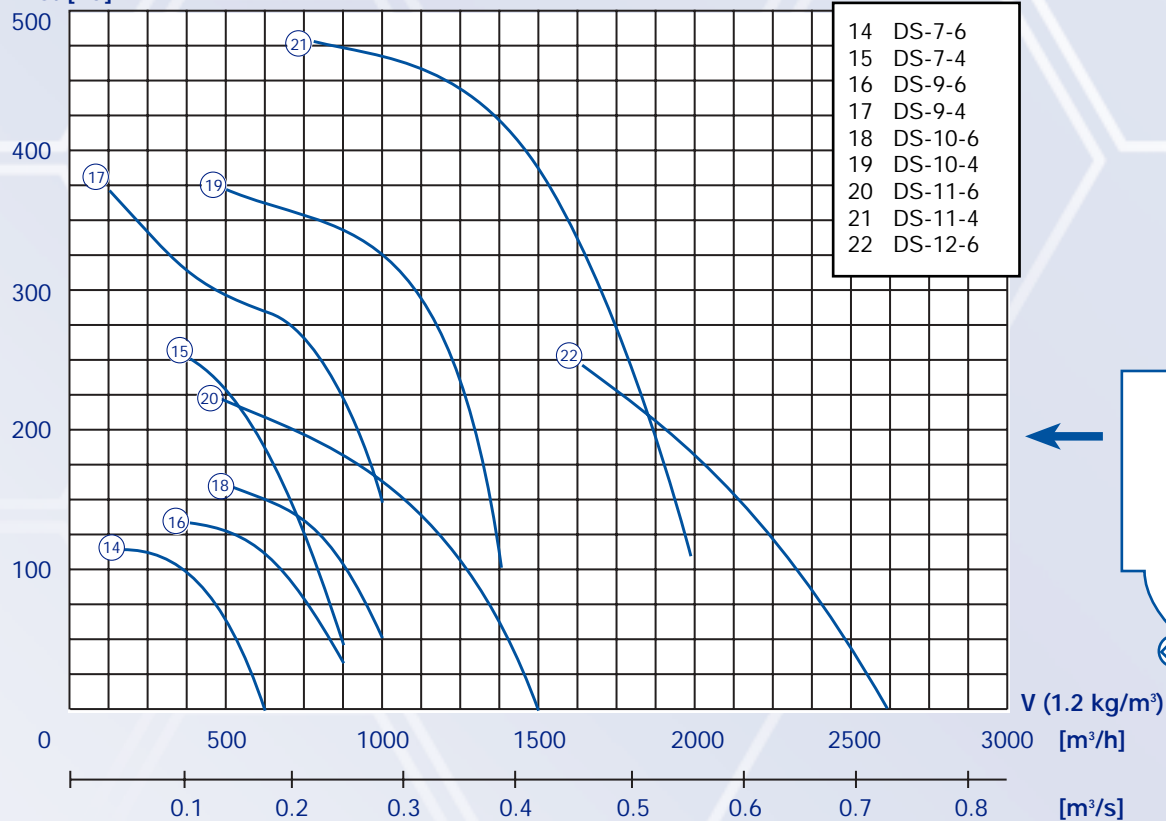
ΔP_{st} [Pa]



DS - FORWARD CURVED

Single inlet

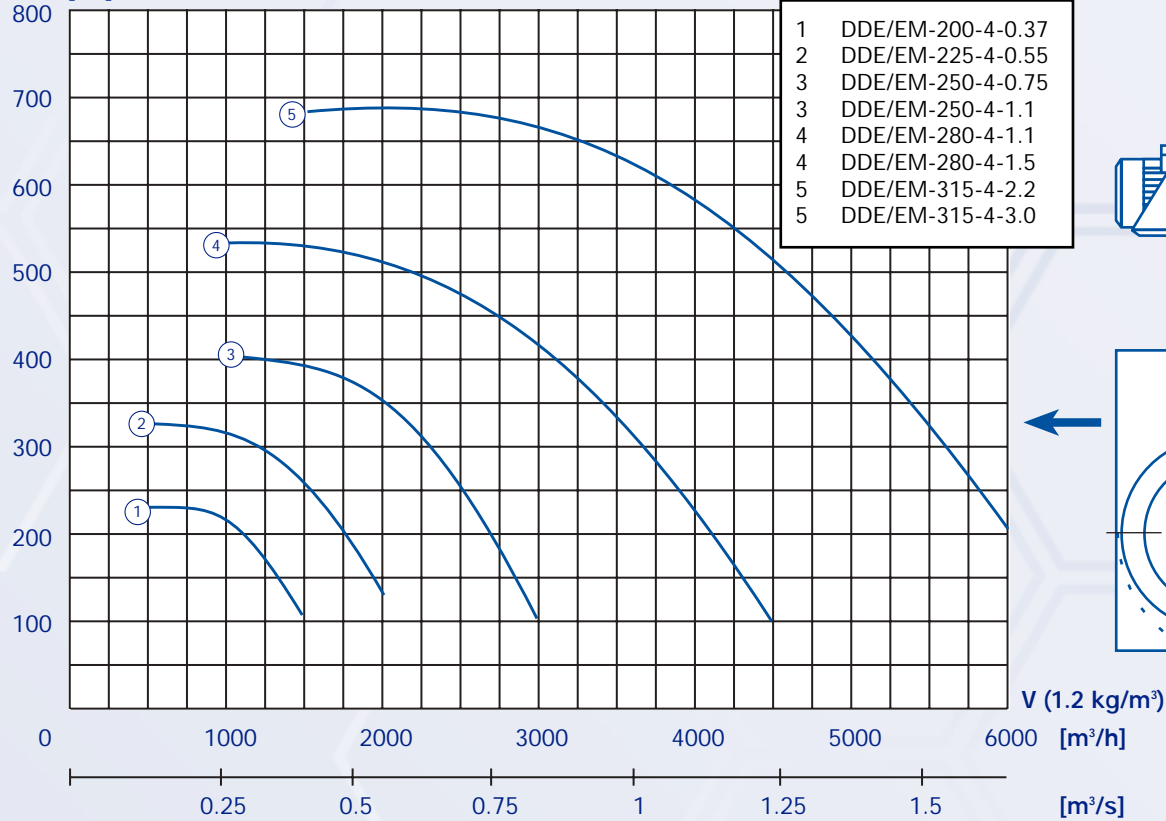
ΔP_{st} [Pa]



DDE/EM – FORWARD CURVED

Single inlet

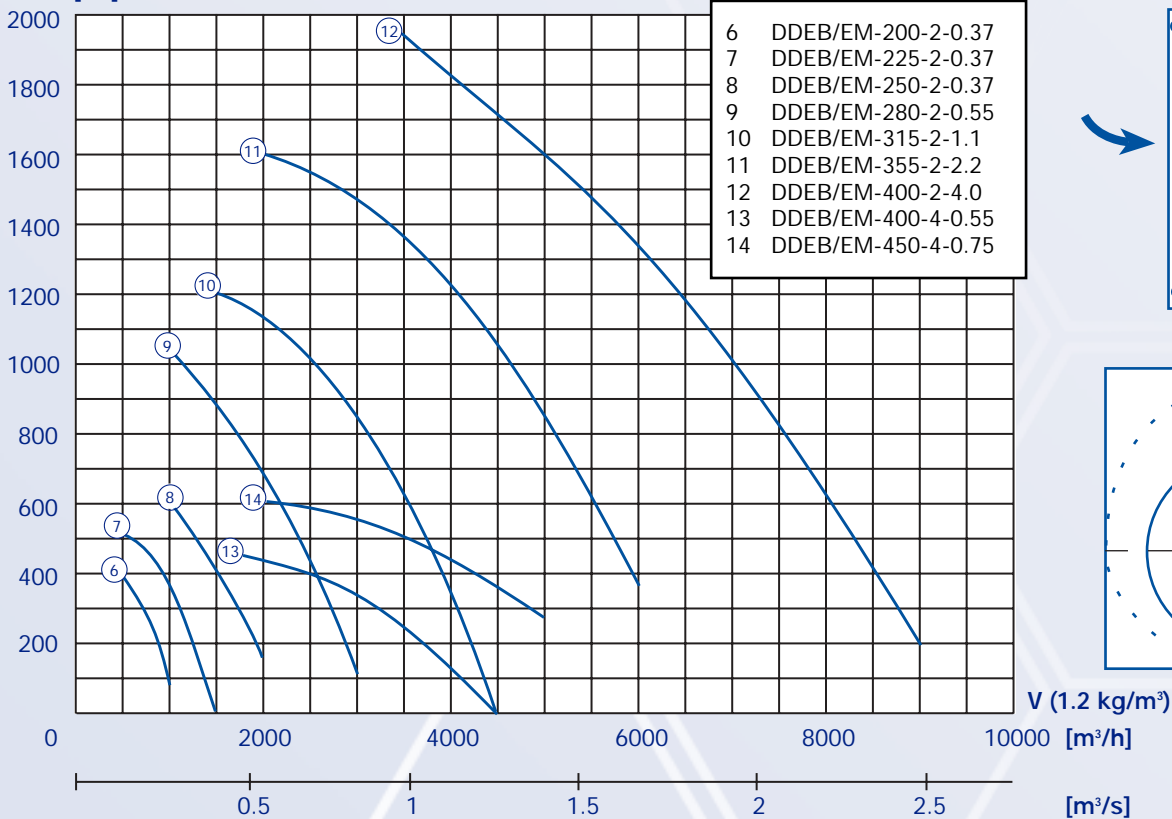
ΔP_{st} [Pa]



DDEB/EM – BACKWARD CURVED

Single inlet

ΔP_{st} [Pa]



DD/DS PERFORMANCE DATA

No.	Type	Speed Min ⁻¹	Motor Rating Watts	Current		Max m ³ /h	Min m ³ /h	Min Pa	Sound dB(A)**	Weight (kg)
				I-Nom A	I-Max A					
1	DD-180-178/3	1400	45	0.7	1.0	1000	250	0	55	5.9
2	DD-7-7-9	900	62	1.0	0.75	1000	250	0	51	7.4
3	DD-7-7-14	1400	92	1.5	1.5	1150	500	75	57	6.9
4	DD-9-7-9	900	184	2.0	2.7	2000	500	0	56	10.6
5	DD-9-7-14	1400	368	3.1	3.8	2400	750	230	66	13.0
6	DD-9-9-9	900	245	2.2	2.5	2500	750	0	59	14.0
7	DD-9-9-14	1400	368	3.1	3.8	2300	750	260	61	14.2
8	DD-10-8-9	900	245	2.9	3.4	2900	1000	100	56	14.5
9	DD-10-10-9	900	245	2.9	3.4	3250	1000	75	57	15.6
10	DD-11-9-9	900	550	4.0	4.8	3900	1500	50	60	17.5
11	DD-11-11-9	900	736	6.0	7.5*	5100	1000	0	65	24.0
12	DD-12-9-9	900	736	6.5	7.5*	4500	1500	150	65	25.5
13	DD-12-12-9	900	920	8.5	NR	6150	2100	80	71	30.0
14	DS-7-6	900	62	0.6	0.75	625	150	0	58	7.0
15	DS-7-4	1400	92	1.15	1.5	820	400	75	62	6.8
16	DS-9-6	900	62	0.6	0.75	900	400	25	59	8.0
17	DS-9-4	1380	92	1.3	1.5	1000	200	150	63	7.5
18	DS-10-6	900	122	1.5	1.8	1000	500	50	62	12.5
19	DS-10-4	1400	368	3.1	3.8	1350	440	175	64	14.5
20	DS-11-6	900	245	2.3	2.7	1500	500	0	61	18.0
21	DS-11-4	1400	460	3.7	4.6	1925	800	150	66	17.0
22	DS-12-6	900	550	4.0	4.8	2600	1620	0	73	23.0

Supply 230/1/50Hz

I-Max A Maximum current with speed control

* Transformer control only

** Sound pressure level at 3 metres from discharge (free field measurement)

NR Not suitable for speed control

DDEM PERFORMANCE DATA

No.	Type	Speed Min ⁻¹	Motor Rating kW	Current I-Nom A	Max m ³ /h	Min Pa	Sound dB(A)**	Weight (kg)
1	DDE/EM-200-4-0.37	1380	0.37	1.2	1600	100	61	11.4
2	DDE/EM-225-4-0.55	1360	0.55	1.7	2300	130	63	15.3
3	DDE/EM-250-4-0.75	1350	0.75	2.1	2700	180	65	20.1
3	DDE/EM-250-4-1.1	1395	1.1	3.0	3250	50	69	22.6
4	DDE/EM-280-4-1.1	1395	1.1	3.0	3300	375	69	26.8
4	DDE/EM-280-4-1.5	1395	1.5	3.7	4200	150	73	28.8
5	DDE/EM-315-4-2.2	1420	2.2	5.0	5100	400	72	40.1
5	DDE/EM-315-4-3.0	1410	3.0	7.1	6600	200	75	43.7
6	DDEB/EM-200-2-0.37	2730	0.37	0.95	1100	0	62	10.1
7	DDEB/EM-225-2-0.37	2730	0.37	0.95	1500	0	65	10.9
8	DDEB/EM-250-2-0.37	2730	0.37	0.95	2000	160	68	12.4
9	DDEB/EM-280-2-0.55	2730	0.55	1.35	3100	120	72	21.1
10	DDEB/EM-315-2-1.1	2810	1.1	2.6	4500	0	77	24.1
11	DDEB/EM-355-2-2.2	2850	2.2	4.4	6000	370	78	28.2
12	DDEB/EM-400-2-4.0	2850	4.0	7.6	9200	200	83	57.3
13	DDEB/EM-400-4-0.55	1360	0.55	1.7	4500	0	68	36.7
14	DDEB/EM-450-4-0.75	1350	0.75	2.1	5000	290	70	44.7

Supply 400/3/50Hz

Not suitable for speed control

** Sound pressure level at 3 metres from discharge (free field measurement)

Robust Direct Drive Centrifugal Fans – Consistent Reliability in Air System & Equipment Applications.

Imofa's direct driven fan range is designed to provide optimum value to the designer, installer, and end user. The fan's robust construction and constant quality make it equally suitable for installation in supply and exhaust air systems, and in original equipment where it contributes to the equipment manufacturer's reputation for the consistent performance and reliability of their product.

DD/DS Range

Double inlet (DD) and single inlet (DS) fans with dynamically balanced forward curved impellers mounted directly onto the motor shaft.



DD - Double Inlet Fans

Three or four point motor suspension with anti-vibration rubber mounts, together with high standard impeller balancing, ensures vibration free, quiet operation. The DD/DS is suitable for handling air temperatures up to 50°C.

DDEM Range

Single inlet centrifugal fans with dynamically balanced forward curved (DDE) or backward curved (DDEB) impellers mounted directly onto the motor shaft.



DDE - Forward Curved Fan

Motors are fitted externally out of the airstream on a removable motor mounting plate, allowing the motor and impeller to be easily taken out for cleaning or maintenance, without having to disconnect ducting.

The fan's cube construction enables it to be readily installed in any discharge position and provides an integral outlet flange for easy connection to flanged ducting.

The DDEM fan is suitable for handling air at temperatures up to 80°C.

Casings

All fan casings are manufactured from heavy gauge galvanised steel.

Impellers

Forward curved impellers on the DD 180 and DD 7 fans are constructed in aluminium. All other forward curved impellers on DD/DS/DDE fans are galvanised steel. Backward curved impellers are all constructed in glass reinforced polyamide.

Motors

Are totally enclosed class B or F insulation suitable for maximum ambient temperatures of 50°C. The DD range motors have excellent speed control characteristics.

Accessories

- Circular connections
- Transition pieces
- Flexible connections
- Base frames
- Anti vibration mounts
- Special coatings
- Controllers
- Inverters

