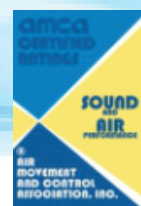
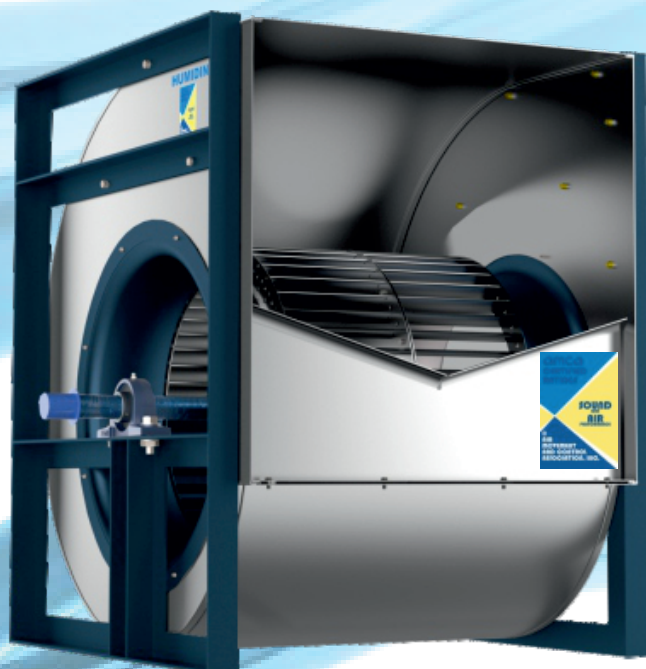


FORWARD CURVED



MEMBER

Quality Speaks For Itself



FORWARD CURVED

HUMIDIN CENTRIFUGAL FAN DIDW-FORWARD CURVED

CENTRIFUGAL BLOWERS, DIDW Fans, are designed to move air or gases by converting rotational kinetic energy into pressure energy. These blowers are used in a wide variety of applications where controlled, high-pressure Air moves is required. The "DIDW" designation indicates two inlets and double-width construction, which together allow for higher efficiency and greater Air moves capacity. The blades optimize the blower's performance by reducing the potential for cavitation and improving energy efficiency.

FEATURES:

1. Double Inlet (DIDW):

Two Inlets: The blower has two intake ports (inlets) instead of one, allowing it to draw air from both sides of the unit. This configuration enhances Air moves capacity and helps balance the load across the system.

Increased Efficiency The dual inlet system improves Air moves and reduces the chance of system imbalance, resulting in better overall performance.

2. Double Width:

Broader Fan Wheel: The "double width" design refers to the fan wheel's larger width, which increases the volume of air the blower can move, enabling higher flow rates without needing a larger fan.

Higher Air moves The double-width construction allows for better air distribution and can handle more significant volumes of air, which is essential in larger-scale industrial applications.

3. Forward Curved Fans Blades:

Blade Design: The forward curve blades are designed to be curved in the same direction as the Air moves. This design creates a centrifugal force that helps push air outward, resulting in high-volume Air moves.

Higher Air moves at Low Pressure Forward curve blades are highly efficient at moving large amounts of air, making them ideal for applications where a high volume of Air moves is required at lower pressures.

4. Versatility in Pressure Handling:

Medium / Low Pressure Capability: DIDW Forward curve blowers are designed for applications where Lower system pressures are encountered, making them ideal for heavy-duty tasks like air handling and fume extraction systems.

Stable Operation: These blowers maintain a consistent Air moves even when the pressure in the system fluctuates, ensuring reliable operation.

5. Low Maintenance and Durability:

Due to the robust design of the fan and the minimal wear on Forward curve blades, DIDW blowers typically require less maintenance over time. Their efficiency and durability are crucial in industrial settings where blower performance is critical.

6. Noise Reduction:

The Forward curve blades also help reduce operational noise, as they generate less turbulence. This makes the blower suitable for environments where noise control is a priority, such as in commercial HVAC systems.

7. Shaft

The shaft used for the fan are made of EN-8/SAE-1040 carbon steel and machined to the prescribed tolerances with standard key ways The Shaft are grinded for better performance and finish. The Shafts are coated with Varnish/Laquer after assembly.

8 Bearings

HUMIDIN Backward curved blower have (NTN/FYH bearings) of international standard The Bearings are either deep groove ball bearings or spherical roller bearings with accentric locking collars/adaptor sleeve sealed at both sides. The Bearings are pre-lubricated and are maintenance free.

MATERIAL OF CONSTRUCTION:

CASING - GI/MS/SS/MS(HOT DIP GALVANIZED)

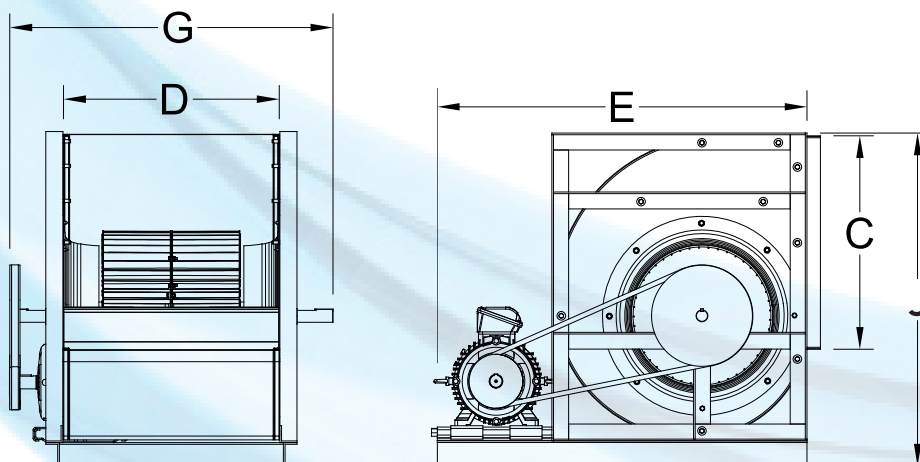
- SHAFT - MS (EN 8) / SS
- BEARING - PILLOW BLOCK
- IMPELLER - MS/GI/SS
- IMPELLER HUB - CI / CI WITH TAPPER BUSH ARRANGEMENT
- SIDE FRAME - MS / SS
- INLET CONE - FRP/MS/GI/SS
-

APPLICATIONS

HVAC Systems:

- Air Handling Units (AHUs):
- Industrial Process Ventilation:
- Clean Room Applications:
-

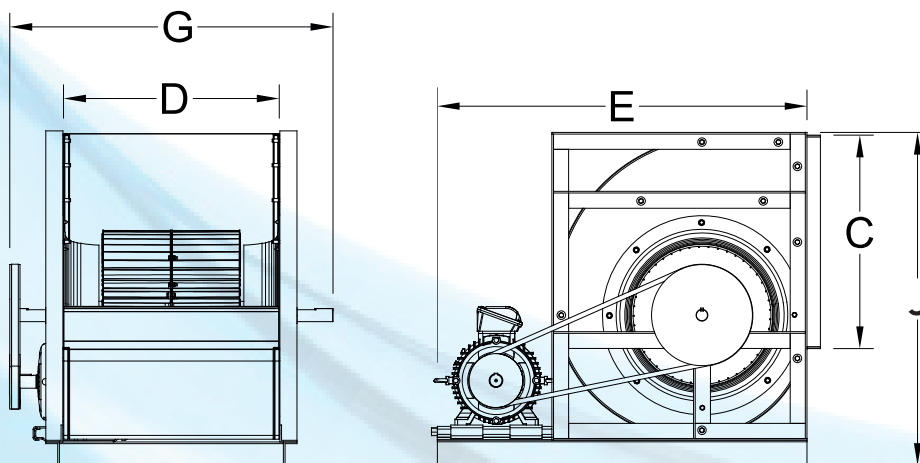
DIMENSIONS TABLE OF FORWARD CURVE (DIDW) SERIES



CENTRIFUGAL FAN (DIDW - FORWARD CURVED)

AIR VOLUME (CFM)	STATIC PRESSURE (mmwg)	FAN TYPE	FAN DIA (mm)	Outlet Vel. (m/s)	MOTOR (HP)	TOTAL EFFICIENCY (%)	DB AT 3mtr	RPM	C (mm)	D (mm)	E (mm)	G (mm)	J (mm)
3000	20	DIDW	315	8.69	1.5	49	58	900	404	404	751	625	656
	30	DIDW	315	8.69	1.5	55.5	60	1022	404	404	751	625	656
	40	DIDW	315	8.69	2	58.9	62	1150	404	404	751	625	656
	50	DIDW	315	8.69	2	60.5	64	1279	404	404	751	625	656
5000	20	DIDW	400	9.2	2	48.5	60	719	507	507	879	765	809
	30	DIDW	400	9.2	3	54.9	62	813	507	507	916	765	809
	40	DIDW	400	9.2	3	58.6	63	909	507	507	916	765	809
	50	DIDW	400	9.22	5	60.4	65	1004	507	507	916	765	809
6000	20	DIDW	450	8.77	3	50.2	60	624	568	568	992	885	900
	30	DIDW	450	8.77	3	56.4	62	712	568	568	992	885	900
	40	DIDW	450	8.77	5	59.6	63	804	568	568	992	885	900
	50	DIDW	450	8.77	5	61	65	895	568	568	992	885	900
8000	20	DIDW	500	9.28	5	47.3	62	582	634	634	758	950	990
	30	DIDW	500	9.28	5	53.3	63	655	634	634	758	950	990
	40	DIDW	500	9.28	5	57.8	65	730	634	634	758	950	990
	50	DIDW	500	9.28	7.5	60	66	807	634	634	758	950	990
9000	20	DIDW	560	8.33	5	50.9	60	495	710	710	1190	1065	1100
	30	DIDW	560	8.33	5	57	62	568	710	710	1190	1065	1100
	40	DIDW	560	8.33	5	60	64	644	710	710	1190	1065	1100
	50	DIDW	560	8.33	7.5	61.1	66	720	710	710	1190	1065	1100
10000	20	DIDW	560	9.26	5	47.5	62	519	710	710	1190	1065	1100
	30	DIDW	560	9.26	5	54	64	584	710	710	1190	1065	1100
	40	DIDW	560	9.26	7.5	57.9	66	651	710	710	1190	1065	1100
	50	DIDW	560	9.26	7.5	60.1	67	720	710	710	1190	1065	1100
12000	20	DIDW	630	8.85	5	49.3	62	450	800	800	1310	1160	1225
	30	DIDW	630	8.85	7.5	55.8	64	511	800	800	1310	1160	1225
	40	DIDW	630	8.85	7.5	59.2	66	575	800	800	1310	1160	1225
	50	DIDW	630	8.85	10	60.7	67	640	800	800	1310	1160	1225
14000	20	DIDW	710	8.2	5	61.3	57	340	898	898	1418	1265	1370
	30	DIDW	710	8.2	7.5	67.6	58	398	898	898	1418	1265	1370
	40	DIDW	710	8.2	7.5	70.4	60	452	898	898	1418	1265	1370
	50	DIDW	710	8.2	10	71.6	61	502	898	898	1418	1265	1370
15000	20	DIDW	710	8.79	5	58.7	59	347	898	898	1418	1265	1370
	30	DIDW	710	8.79	7.5	65.8	59	403	898	898	1418	1265	1370
	40	DIDW	710	8.79	7.5	69.3	61	455	898	898	1418	1265	1370
	50	DIDW	710	8.79	10	71	62	503	898	898	1418	1265	1370

NOTE: ALL TECHNICAL & DIMENSIONS ARE ONLY FOR REFERENCE

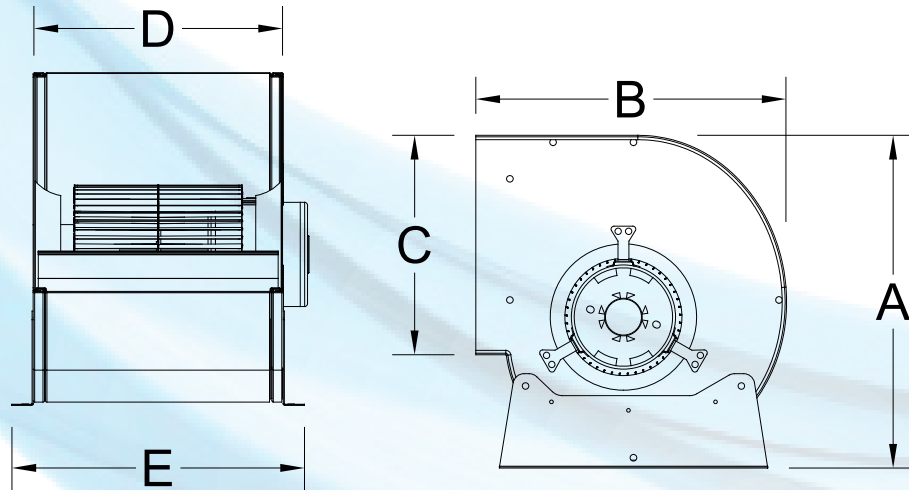


CENTRIFUGAL FAN (DIDW - FORWARD CURVED)

AIR VOLUME (CFM)	STATIC PRESSURE (mmwg)	FAN TYPE	FAN DIA (mm)	Outlet Vel. (m/s)	MOTOR (HP)	TOTAL EFFICIENCY (%)	DB AT 3mtr	RPM	C (mm)	D (mm)	E (mm)	G (mm)	J (mm)
16000	20	DIDW	710	9.37	7.5	56.4	60	354	898	898	1418	1265	1370
	30	DIDW	710	9.37	7.5	63.7	61	409	898	898	1418	1265	1370
	40	DIDW	710	9.37	10	68	62	459	898	898	1418	1265	1370
	50	DIDW	710	9.37	10	70	63	506	898	898	1418	1265	1370
18000	20	DIDW	800	8.4	7.5	61.1	58	303	1006	1006	1690	1380	1532
	30	DIDW	800	8.4	7.5	67.5	59	354	1006	1006	1690	1380	1532
	40	DIDW	800	8.4	10	70.3	61	401	1006	1006	1690	1380	1532
	50	DIDW	800	8.4	10	71.6	62	446	1006	1006	1690	1380	1532
20000	20	DIDW	800	9.33	7.5	57.3	60	313	1006	1006	1540	1380	1532
	30	DIDW	800	9.33	10	64.3	61	362	1006	1006	1690	1380	1532
	40	DIDW	800	9.33	10	68.4	62	406	1006	1006	1690	1380	1532
	50	DIDW	800	9.33	15	70.4	63	448	1006	1006	1690	1380	1532
24000	20	DIDW	900	8.85	7.5	59.2	60	273	1132	1132	1701	1550	1715
	30	DIDW	900	8.85	10	61.1	61	318	1132	1132	1851	1550	1715
	40	DIDW	900	8.85	15	69.6	62	359	1132	1132	1851	1550	1715
	50	DIDW	900	8.85	15	71.1	63	397	1132	1132	1851	1550	1715
27000	20	DIDW	900	9.96	10	55	63	284	1132	1132	1851	1550	1715
	30	DIDW	900	9.96	15	62.2	63	327	1132	1132	1851	1550	1715
	40	DIDW	900	9.96	15	66.7	64	365	1132	1132	1851	1550	1715
	50	DIDW	900	9.96	15	69.5	65	401	1132	1132	1851	1550	1715
30000	20	DIDW	1000	8.85	10	58.4	60	247	1266	1266	1932	1715	1900
	30	DIDW	1000	8.85	15	65.6	61	287	1266	1266	1932	1715	1900
	40	DIDW	1000	8.85	15	69.1	63	323	1266	1266	1932	1715	1900
	50	DIDW	1000	8.85	15	70.9	65	358	1266	1266	1932	1715	1900
32000	20	DIDW	1000	9.44	15	56.1	62	252	1266	1266	1932	1715	1900
	30	DIDW	1000	9.44	15	63.5	62	291	1266	1266	1932	1715	1900
	40	DIDW	1000	9.44	20	67.8	64	326	1266	1266	1932	1715	1900
	50	DIDW	1000	9.44	20	69.9	65	360	1266	1266	1932	1715	1900
35000	20	DIDW	1120	8.17	10	60.9	59	216	1422	1422	2178	1870	2235
	30	DIDW	1120	8.17	15	67.4	60	253	1422	1422	2178	1870	2235
	40	DIDW	1120	8.17	20	70.2	62	286	1422	1422	2178	1870	2235
	50	DIDW	1120	8.35	20	71.5	64	318	1422	1422	2178	1870	2235
40000	20	DIDW	1120	9.34	15	56	62	225	1422	1422	2178	1870	2235
	30	DIDW	1120	9.34	20	63.4	63	259	1422	1422	2178	1870	2235
	40	DIDW	1120	9.34	20	67.8	64	291	1422	1422	2178	1870	2235
	50	DIDW	1120	9.34	25	69.9	66	321	1422	1422	2178	1870	2235
45000	20	DIDW	1120	10.5	20	51.9	66	235	1422	1422	2178	1870	2235
	30	DIDW	1120	10.5	20	59.2	65	268	1422	1422	2178	1870	2235
	40	DIDW	1120	10.5	25	64.2	66	298	1422	1422	2178	1870	2235
	50	DIDW	1120	10.5	30	67.6	67	326	1422	1422	2178	1870	2235

NOTE: ALL TECHNICAL & DIMENSIONS ARE ONLY FOR REFERENCE

DIMENSIONS TABLE OF FORWARD CURVE-HTDD-(DIDW) SERIES

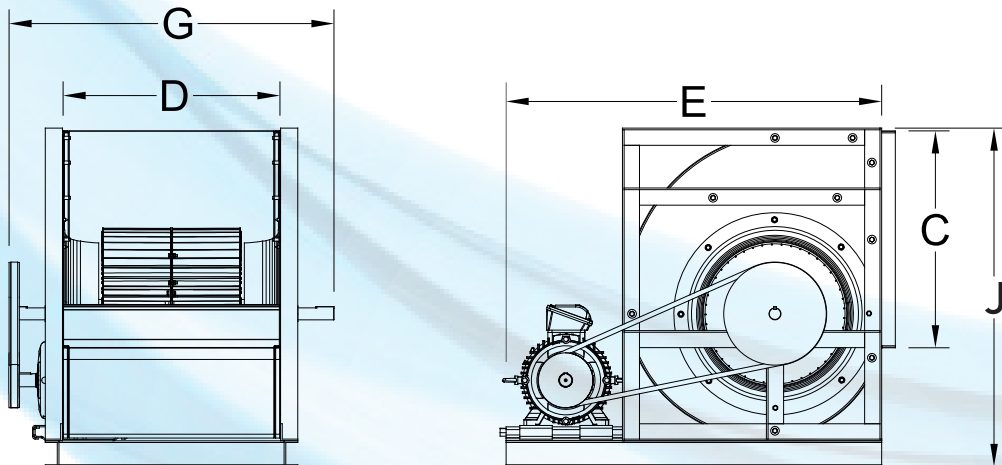


CENTRIFUGAL FAN (FORWARD CURVED-HTDD SERIES) DIRECT DRIVEN - SINGLE PHASE

AIR VOLUME (CFM)	STATIC PRESSURE (mmwg)	FAN TYPE	FAN DIA (mm)	Outlet Vel. (m/s)	Three Speed Single Phase Motor (HP)	TOTAL EFFICIENCY (%)	DB AT 3mtr	Min.-Max. RPM	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
1000	10	DIDW	9/9.	6.05	0.5	55.1	54	980-1380	400	385	275	300	355
	15	DIDW	9/9.	6.05	0.5	45.3	59	980-1380	400	385	275	300	355
	20	DIDW	9/9.	6.05	0.5	44	62	980-1380	400	385	275	300	355
1500	10	DIDW	9/9.	9.07	0.5	52.2	52	980-1380	400	385	275	300	355
	15	DIDW	9/9.	8.6	0.5	54.5	54.3	980-1380	400	385	275	300	355
	20	DIDW	10/10.	9.07	0.75	57.1	57	950-1350	455	430	300	340	400
2000	10	DIDW	10/10.	9.3	0.75	57.3	56.4	950-1350	455	430	300	340	400
	15	DIDW	10/10.	9.87	0.75	61.6	58	950-1350	455	430	300	340	400
	20	DIDW	10/10.	9.87	0.75	64	59	950-1350	455	430	300	340	400
2500	10	DIDW	12/12.	8.8	1	60.9	56	780-920	535	495	341	394	450
	15	DIDW	12/12.	8.8	1	62	58	780-920	535	495	341	394	450
	20	DIDW	12/12.	8.76	1	62	62	780-920	535	495	341	394	450

NOTE: ALL TECHNICAL & DIMENSIONS ARE ONLY FOR REFERENCE

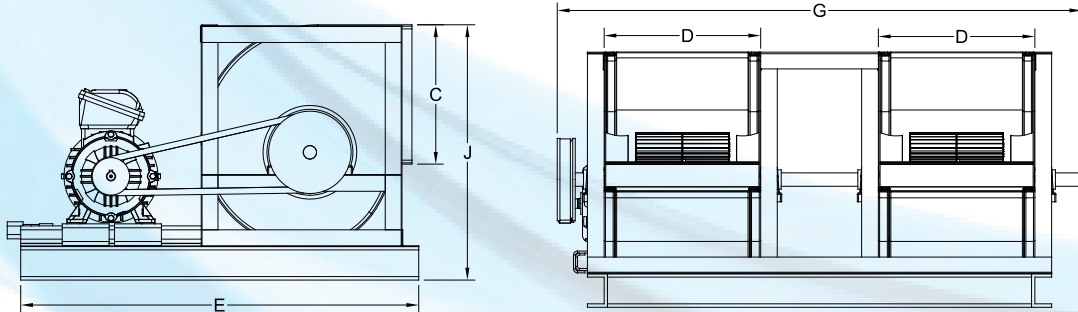
DIMENSIONS TABLE OF FORWARD CURVE-HT-(DIDW) SERIES



CENTRIFUGAL FAN (FORWARD CURVED-HT SERIES)													
AIR VOLUME (CFM)	STATIC PRESSURE (mmwg)	FAN TYPE	FAN DIA (INCH)	Outlet Vel. (m/s)	MOTOR (HP)	TOTAL EFFICIENCY (%)	DB AT 3mtr	RPM	C (mm)	D (mm)	E (mm)	G (mm)	J (mm)
1000	20	DIDW	7/7.	8	0.5	39.6	53.1	1435	208	245	570	390	380
	30	DIDW	7/7.	8	0.5	48.8	53.6	1581	208	245	570	390	380
	40	DIDW	7/7.	8	0.75	52.1	56.2	1791	208	245	570	390	380
1500	20	DIDW	9/9.	9.07	0.5	54.5	51.2	936	275	300	625	455	450
	30	DIDW	9/9.	9.07	0.75	57.4	56.4	1126	275	300	625	455	450
	40	DIDW	9/9.	9.07	0.75	57.5	59.7	1297	275	300	625	455	450
2000	20	DIDW	10/10.	9.87	0.5	57.9	53.3	839	300	340	665	500	505
	30	DIDW	10/10.	9.87	0.75	64.3	56.1	976	300	340	665	500	505
	40	DIDW	10/10.	9.87	1	66.8	58.9	1110	300	340	665	500	505
3000	20	DIDW	12/12.	10.5	1	59.1	53.7	710	341	395	735	585	575
	30	DIDW	12/12.	10.5	1.5	61.2	57.9	856	341	395	735	585	575
	40	DIDW	12/12.	10.5	1.5	61.9	60.9	980	341	395	735	585	575
4000	20	DIDW	15/15.	9.99	1	62.5	54.4	603	415	465	825	685	670
	30	DIDW	15/15.	9.99	1.5	70.1	57.1	704	415	465	825	685	670
	40	DIDW	15/15.	9.99	1.5	73.1	60.2	808	415	465	825	685	670
5000	20	DIDW	18/18.	8.87	1.5	66.2	54.9	507	490	545	945	790	795
	30	DIDW	18/18.	8.87	2	67.3	60.6	612	490	545	945	790	795
	40	DIDW	18/18.	8.87	3	63.6	63.3	729	490	545	945	790	795

NOTE: ALL TECHNICAL & DIMENSIONS ARE ONLY FOR REFERENCE

DIMENSIONS TABLE OF FORWARD CURVE-HTT-(DIDW) SERIES



CENTRIFUGAL FAN (FORWARD CURVED-HTT SERIES)

AIR VOLUME (CFM)	STATIC PRESSURE (mmwg)	FAN TYPE	FAN DIA (mm)	O.Vel (m/s)	MOTOR (HP)	TOTAL EFFICIENCY (%)	DB AT 3mtr	RPM	C (mm)	D (mm)	E (mm)	G (mm)	J (mm)
2000	20	DIDW	7/7. x 2	8	1	36.8	58.6	1492	208	232	570	812	380
	30	DIDW	7/7. x 2	8	1	45.4	60.5	1645	208	232	570	812	380
	40	DIDW	7/7. x 2	8	1.5	48.4	63.3	1863	208	232	570	812	380
	50	DIDW	7/7. x 2	8	1.5	50.3	66.3	2103	208	232	570	812	380
3000	20	DIDW	9/9. x 2	9	1	50.7	58.9	973	275	300	625	1000	450
	30	DIDW	9/9. x 2	9	1.5	53.4	63.4	1171	275	300	625	1000	450
	40	DIDW	9/9. x 2	9	2	53.5	61.4	1349	275	300	625	1000	450
	50	DIDW	9/9. x 2	9	3	46.2	66.6	1610	275	300	625	1000	450
4000	20	DIDW	10/10. x 2	9.87	1.5	53.8	57.5	873	300	340	665	1085	505
	30	DIDW	10/10. x 2	9.87	1.5	59.8	60.5	1015	300	340	665	1085	505
	40	DIDW	10/10. x 2	9.87	2	62.2	60.5	1154	300	340	665	1085	505
	50	DIDW	10/10. x 2	9.87	3	60.9	63.8	1311	300	340	665	1085	505
6000	20	DIDW	12/12. x 2	10.5	2	55	60.3	738	341	395	735	1320	575
	30	DIDW	12/12. x 2	10.5	3	57	64.7	891	341	395	772	1320	575
	40	DIDW	12/12. x 2	10.5	3	57.6	66.5	1019	341	395	772	1320	575
	50	DIDW	12/12. x 2	10.5	5	56.3	67	1160	341	395	772	1320	575
8000	20	DIDW	15/15. x 2	9.99	3	58.2	57.4	628	415	465	862	1560	670
	30	DIDW	15/15. x 2	9.99	3	65.2	60.4	733	415	465	862	1560	670
	40	DIDW	15/15. x 2	9.99	5	68	63.5	840	415	465	862	1560	670
	50	DIDW	15/15. x 2	9.99	5	67.6	66.4	952	415	465	862	1560	670
11000	20	DIDW	18/18. x 2	9.75	3	60.2	62.5	532	490	545	982	1805	795
	30	DIDW	18/18. x 2	9.75	5	62.4	67.1	641	490	545	982	1805	795
	40	DIDW	18/18. x 2	9.75	5	61.7	70.7	738	490	545	982	1805	795
	50	DIDW	18/18. x 2	9.75	7.5	58.1	70.4	853	490	545	1015	1805	795

NOTE: ALL TECHNICAL & DIMENSIONS ARE ONLY FOR REFERENCE

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The intention of this brochure is to introduce you to, and acquaint you with the capabilities of the HUMIDIN organization in the offered product areas. It will not answer all your immediate questions, and indeed, it will no doubt raise others. We welcome your interest in our products and shall be very pleased to provide further information.

GUARANTEES

HUMIDIN guarantees its products to be free of defects in materials and workmanship for a period of one year from the date of delivery from the factory, provided motors are properly installed with overload protector. Humidin agrees to repair or replace defective parts or part to be returned to the factory, all transportation charges prepaid. Humidin does not guarantee against abrasion, corrosion or erosion. Humidin shall not be held responsible for any charges in connection with the removal or replacement of alleged defective equipment nor for incidental consequential damages

A.C HUMIDIN AIR SYSTEMS PVT.LTD.

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