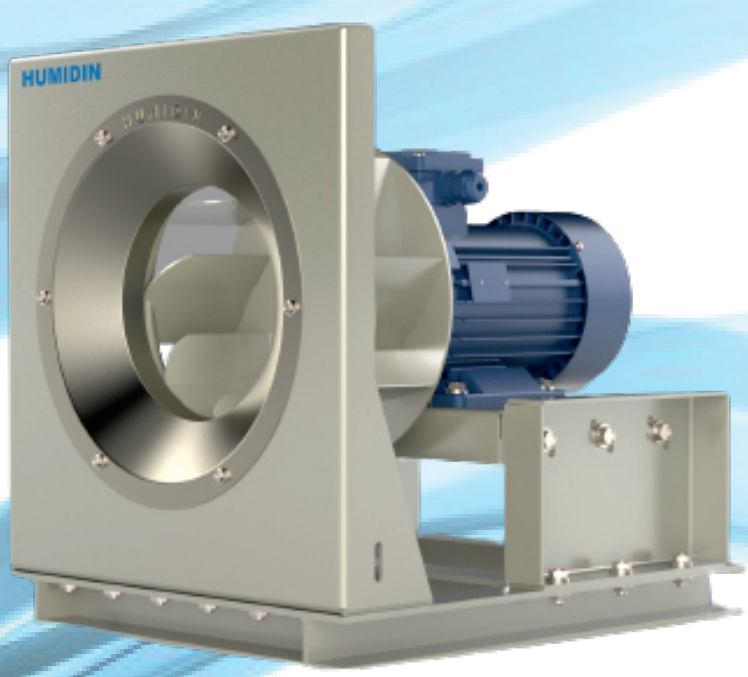
HUMIDIN®

PLUG FAN - BACKWARD CURVED



MEMBER

Quality Speaks For Itself

HUMIDIN®

PLUG FAN-BACKWARD CURVED

HUMIDIN CENTRIFUGAL PLUG FAN BACKWARD / AEROFOIIL

PLUG 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 "SISW" 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. Single Inlet (SISW):

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

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

2. Single Width:

Narrower Fan Wheel: The single width fan wheel means that the fan has a more narrow rotor compared to double-width designs. This results in a smaller overall footprint, ideal for environments where space efficiency is essential.

Moderate Air moves Capacity: While it can still move a significant volume of air, the single width design limits the maximum Air moves capacity compared to wider designs.

3. Plug Fan Backward / Aerofoil.

Blade Design: Backward Curve Blades: In some cases, backward curve blades are used, providing higher efficiency at moderate to high pressures. Backward curve blades generally offer better energy efficiency and lower wear compared to forward curve blades.

4. Versatility in Pressure Handling:

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

5. Low Maintenance and Durability:

Due to the robust design of the fan and the minimal wear on Backward curve blades,

Plug Fan typically require less maintenance over time. Their efficiency and durability are crucial in industrial settings where blower performance is critical.

6. Noise Reduction:

The Backward 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.

MATERIAL OF CONSTRUCTION:

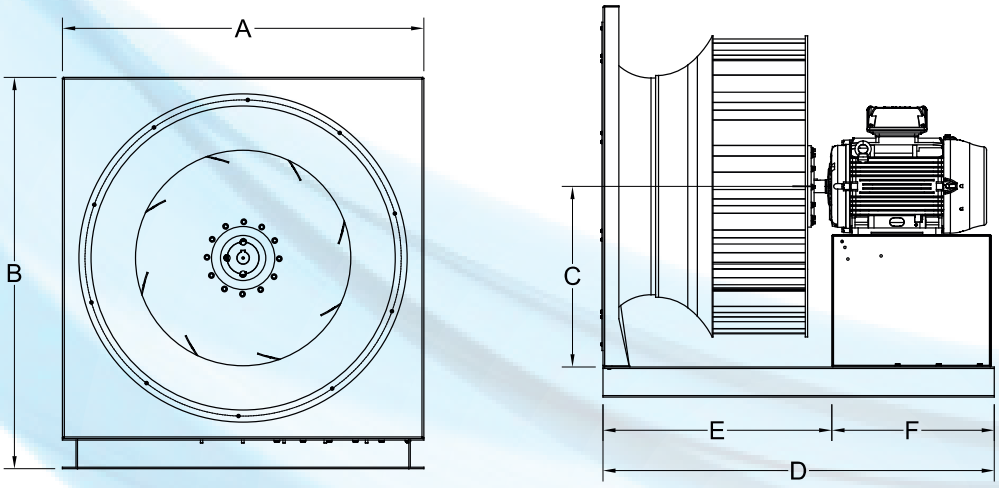
- CASING - GI/MS/SS/MS(HOT DIP GALVANIZED)
- IMPELLER - MS/GI/SS
- IMPELLER HUB - CI / CI WITH TAPPER BUSH ARRANGEMENT
- INLET CONE - FRP/MS/GI/SS

APPLICATIONS

- HVAC Systems
- Industrial Ventilation
- Air Handling Units
- Dust Collection
- Exhaust Fans
- Drying Systems
- Cooling Systems

HUMIDIN®

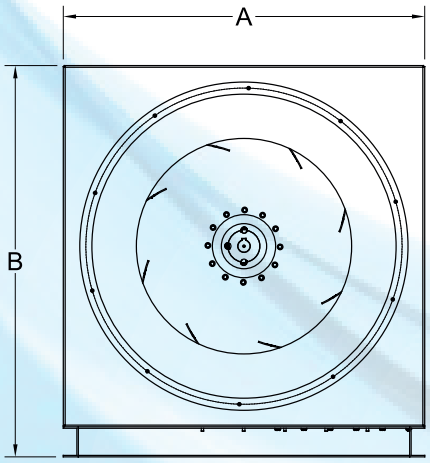
DIMENSIONS TABLE OF PLUG FAN

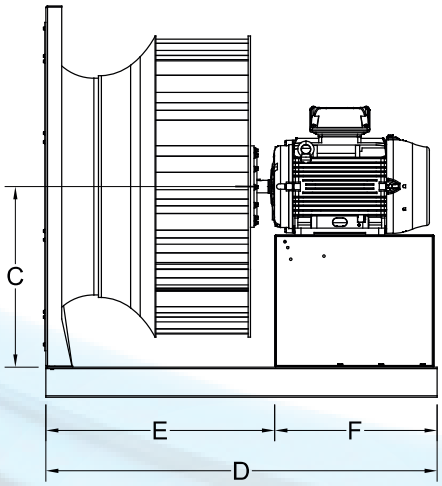


CENTRIFUGAL FAN (BACKWARD CURVED-PLUG FAN)

AIR VOLUME (CFM)	STATIC PRESSURE (mmwg)	FAN TYPE	FAN DIA (mm)	Unit Outlet Vel. (m/s)	MOTOR (HP)	TOTAL EFFICIENCY (%)	DB AT 3mtr	RPM	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
1200	40	PLUG FAN	315	7.26	0.75	59.5	53	1914	461	501	230	475	255	220
	50	PLUG FAN	315	7.26	1	58.3	56	2087	461	501	230	475	255	220
	60	PLUG FAN	315	7.26	1	56.7	58	2244	461	501	230	475	255	220
	70	PLUG FAN	315	7.26	1.5	52.2	59	2392	461	501	230	475	255	220
	80	PLUG FAN	315	7.26	1.5	53.7	61	2534	461	501	230	475	255	220
	90	PLUG FAN	315	7.26	2	52.3	63	2671	461	501	230	475	255	220
	100	PLUG FAN	315	7.26	2	51	65	2804	461	501	230	475	255	220
	110	PLUG FAN	315	7.26	2	49.9	66	2932	461	501	230	475	255	220
	120	PLUG FAN	315	7.26	3	48.8	67	3058	461	501	230	475	255	220
2000	40	PLUG FAN	355	9.54	1.5	59.1	56	1871	510	585	255	488	263	225
	50	PLUG FAN	355	9.54	1.5	60.3	57	1997	510	585	255	488	263	225
	60	PLUG FAN	355	9.54	2	60.5	58	2126	510	585	255	488	263	225
	70	PLUG FAN	355	9.54	2	60.1	59	2252	510	585	255	488	263	225
	80	PLUG FAN	355	9.54	3	59.5	60	2371	510	585	255	488	263	225
	90	PLUG FAN	355	9.54	3	58.6	61	2482	510	585	255	488	263	225
	100	PLUG FAN	355	9.54	3	57.8	62	2589	510	585	255	488	263	225
	110	PLUG FAN	355	9.54	5	56.9	62	2691	510	585	255	488	263	225
	120	PLUG FAN	355	9.54	5	55.9	63	2790	510	585	255	488	263	225
3000	40	PLUG FAN	400	11.24	2	56.9	60	1820	550	625	275	531	296	235
	50	PLUG FAN	400	11.24	2	59.4	61	1916	550	625	275	531	296	235
	60	PLUG FAN	400	11.24	3	60.9	62	2009	550	625	275	531	296	235
	70	PLUG FAN	400	11.24	3	61.6	62	2103	550	625	275	531	296	235
	80	PLUG FAN	400	11.24	5	61.9	63	2198	550	625	275	531	296	235
	90	PLUG FAN	400	11.24	5	61.9	64	2293	550	625	275	531	296	235
	100	PLUG FAN	400	11.24	5	61.7	64	2385	550	625	275	531	296	235
	110	PLUG FAN	400	11.24	5	61.3	65	2474	550	625	275	531	296	235
	120	PLUG FAN	400	11.24	5	60.8	65	2559	550	625	275	531	296	235
4000	40	PLUG FAN	450	11.88	3	56.9	61	1635	610	685	305	643	338	305
	50	PLUG FAN	450	11.88	3	59.9	61	1715	610	685	305	643	338	305
	60	PLUG FAN	450	11.88	5	62	62	1793	610	685	305	643	338	305
	70	PLUG FAN	450	11.88	5	63.4	62	1868	610	685	305	643	338	305
	80	PLUG FAN	450	11.88	5	64.4	62	1943	610	685	305	643	338	305
	90	PLUG FAN	450	11.88	5	64.9	63	2019	610	685	305	643	338	305
	100	PLUG FAN	450	11.88	5	65.1	63	2097	610	685	305	643	338	305
	110	PLUG FAN	450	11.88	7.5	65.1	64	2176	610	685	305	643	338	305
	120	PLUG FAN	450	11.88	7.5	65	64	2254	610	685	305	643	338	305

NOTE: ALL TECHNICAL & DIMENSIONS ARE ONLY FOR REFERENCE





CENTRIFUGAL FAN (BACKWARD CURVED-PLUG FAN)

AIR VOLUME (CFM)	STATIC PRESSURE (mmwg)	FAN TYPE	FAN DIA (mm)	Unit Outlet Vel. (m/s)	MOTOR (HP)	TOTAL EFFICIENCY (%)	DB AT 3mtr	RPM	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
5000	40	PLUG FAN	500	12	5	58.3	61	1447	660	735	330	669	364	305
	50	PLUG FAN	500	12	5	61.2	61	1519	660	735	330	669	364	305
	60	PLUG FAN	500	12	5	63.3	62	1587	660	735	330	669	364	305
	70	PLUG FAN	500	12	5	63.6	63	1655	660	735	330	669	364	305
	80	PLUG FAN	500	12	5	65.5	63	1722	660	735	330	669	364	305
	90	PLUG FAN	500	12	7.5	66	64	1790	660	735	330	669	364	305
	100	PLUG FAN	500	12	7.5	66.2	64	1859	660	735	330	669	364	305
	110	PLUG FAN	500	12	7.5	66.2	65	1930	660	735	330	669	364	305
	120	PLUG FAN	500	12	7.5	66	65	1999	660	735	330	669	364	305
6000	40	PLUG FAN	560	11.52	5	60	60	1265	740	815	370	723	418	305
	50	PLUG FAN	560	11.52	5	62.8	61	1330	740	815	370	723	418	305
	60	PLUG FAN	560	11.52	5	64.7	61	1393	740	815	370	723	418	305
	70	PLUG FAN	560	11.52	7.5	65.9	62	1455	740	815	370	723	418	305
	80	PLUG FAN	560	11.52	7.5	66.6	63	1519	740	815	370	723	418	305
	90	PLUG FAN	560	11.52	7.5	66.8	63	1584	740	815	370	723	418	305
	100	PLUG FAN	560	11.52	7.5	66.8	64	1649	740	815	370	723	418	305
	110	PLUG FAN	560	11.52	10	66.7	65	1714	740	815	370	723	418	305
	120	PLUG FAN	560	11.52	10	66.5	66	1777	740	815	370	723	418	305
7000	40	PLUG FAN	630	10.59	5	65.5	57	1063	810	885	405	764	459	305
	50	PLUG FAN	630	10.59	5	67.3	57	1126	810	885	405	764	459	305
	60	PLUG FAN	630	10.59	5	68.2	58	1188	810	885	405	764	459	305
	70	PLUG FAN	630	10.59	7.5	68.6	59	1251	810	885	405	764	459	305
	80	PLUG FAN	630	10.59	7.5	68.6	60	1313	810	885	405	764	459	305
	90	PLUG FAN	630	10.59	7.5	68.4	61	1376	810	885	405	764	459	305
	100	PLUG FAN	630	10.59	10	68	61	1437	810	885	405	764	459	305
	110	PLUG FAN	630	10.59	10	67.7	62	1497	810	885	405	764	459	305
	120	PLUG FAN	630	10.59	10	67.1	63	1557	810	885	405	764	459	305
8000	40	PLUG FAN	630	9.62	5	73.4	68	1111	810	885	405	764	459	305
	50	PLUG FAN	630	9.62	5	74.9	69	1172	810	885	405	764	459	305
	60	PLUG FAN	630	9.62	5	75.3	71	1234	810	885	405	764	459	305
	70	PLUG FAN	630	9.62	5	75.1	72	1295	810	885	405	764	459	305
	80	PLUG FAN	630	9.62	7.5	74.5	74	1357	810	885	405	764	459	305
	90	PLUG FAN	630	9.62	7.5	73.8	75	1417	810	885	405	764	459	305
	100	PLUG FAN	630	9.62	7.5	72.9	76	1476	810	885	405	764	459	305
	110	PLUG FAN	630	9.62	10	71.9	77	1534	810	885	405	764	459	305
	120	PLUG FAN	630	9.62	10	70.9	78	1590	810	885	405	764	459	305

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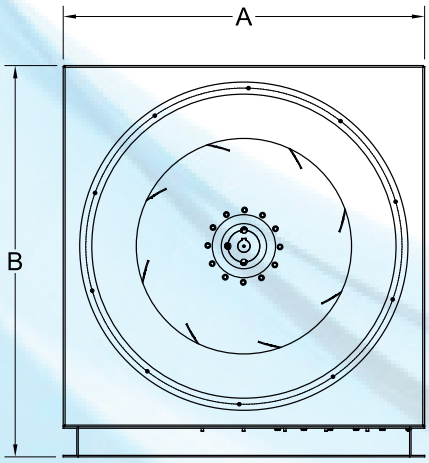

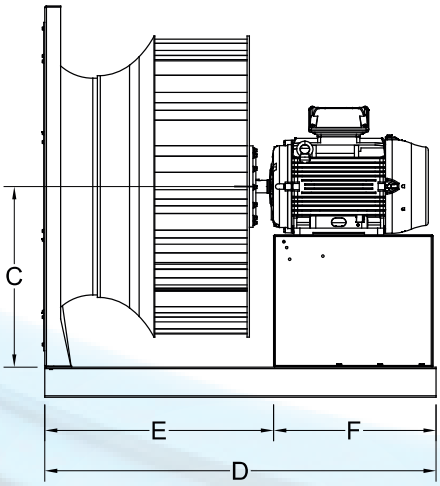

CENTRIFUGAL FAN (BACKWARD CURVED-PLUG FAN)

AIR VOLUME (CFM)	STATIC PRESSURE (mmwg)	FAN TYPE	FAN DIA (mm)	Unit Outlet Vel. (m/s)	MOTOR (HP)	TOTAL EFFICIENCY (%)	DB AT 3mtr	RPM	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
9000	40	PLUG FAN	710	8.52	5	75	69	926	890	990	445	875	520	355
	50	PLUG FAN	710	8.52	5	75.3	72	988	890	990	445	875	520	355
	60	PLUG FAN	710	8.52	5	74.7	73	1049	890	990	445	875	520	355
	70	PLUG FAN	710	8.52	7.5	73.8	75	1110	890	990	445	875	520	355
	80	PLUG FAN	710	8.52	7.5	72.7	76	1169	890	990	445	875	520	355
	90	PLUG FAN	710	8.52	7.5	71.5	78	1226	890	990	445	875	520	355
	100	PLUG FAN	710	8.52	10	70.1	79	1282	890	990	445	875	520	355
	110	PLUG FAN	710	8.52	10	68.8	80	1335	890	990	445	875	520	355
	120	PLUG FAN	710	8.52	15	67.5	81	1386	890	990	445	875	520	355
10000	40	PLUG FAN	710	9.46	5	73.7	71	977	890	990	445	875	520	355
	50	PLUG FAN	710	9.46	5	75	72	1032	890	990	445	875	520	355
	60	PLUG FAN	710	9.46	7.5	75.3	74	1088	890	990	445	875	520	355
	70	PLUG FAN	710	9.46	7.5	75	76	1143	890	990	445	875	520	355
	80	PLUG FAN	710	9.46	7.5	74.4	77	1198	890	990	445	875	520	355
	90	PLUG FAN	710	9.46	10	73.5	78	1253	890	990	445	875	520	355
	100	PLUG FAN	710	9.46	10	72.6	79	1306	890	990	445	875	520	355
	110	PLUG FAN	710	9.46	10	71.6	80	1357	890	990	445	875	520	355
	120	PLUG FAN	710	9.46	15	70.5	81	1407	890	990	445	875	520	355
12000	40	PLUG FAN	800	8.95	5	75.5	71	842	980	1080	490	925	570	355
	50	PLUG FAN	800	8.95	7.5	75.3	73	894	980	1080	490	925	570	355
	60	PLUG FAN	800	8.95	7.5	75.1	74	946	980	1080	490	925	570	355
	70	PLUG FAN	800	8.95	7.5	74.5	76	998	980	1080	490	925	570	355
	80	PLUG FAN	800	8.95	10	73.6	77	1049	980	1080	490	925	570	355
	90	PLUG FAN	800	8.95	10	72.5	78	1098	980	1080	490	925	570	355
	100	PLUG FAN	800	8.95	15	71.4	80	1146	980	1080	490	925	570	355
	110	PLUG FAN	800	8.95	15	70.2	81	1193	980	1080	490	925	570	355
	120	PLUG FAN	800	8.95	15	68.9	82	1238	980	1080	490	925	570	355
14000	40	PLUG FAN	900	8.25	5	75.6	69	722	1100	1200	550	1035	680	355
	50	PLUG FAN	900	8.25	7.5	75.3	71	775	1100	1200	550	1035	680	355
	60	PLUG FAN	900	8.25	10	73.7	73	827	1100	1200	550	1035	680	355
	70	PLUG FAN	900	8.25	10	71.9	74	877	1100	1200	550	1035	680	355
	80	PLUG FAN	900	8.25	15	70.1	76	924	1100	1200	550	1035	680	355
	90	PLUG FAN	900	8.25	15	68.5	77	968	1100	1200	550	1035	680	355
	100	PLUG FAN	900	8.25	15	67	78	1010	1100	1200	550	1035	680	355
	110	PLUG FAN	900	8.25	15	65.7	79	1051	1100	1200	550	1035	680	355
	120	PLUG FAN	900	8.25	20	64.4	80	1090	1100	1200	550	1035	680	355

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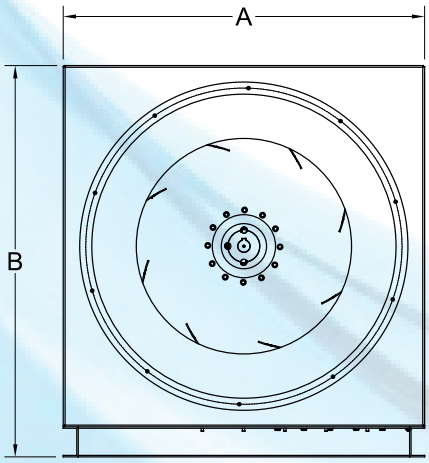

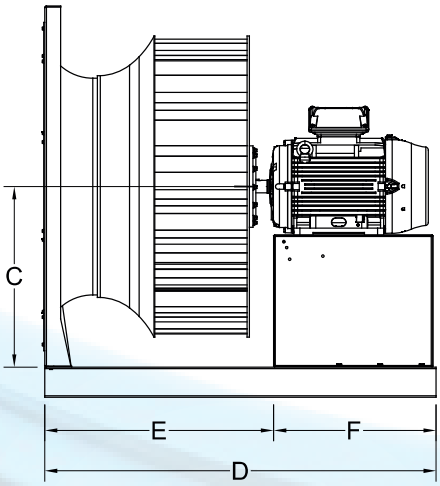

CENTRIFUGAL FAN (BACKWARD CURVED-PLUG FAN)

AIR VOLUME (CFM)	STATIC PRESSURE (mmwg)	FAN TYPE	FAN DIA (mm)	Unit Outlet Vel. (m/s)	MOTOR (HP)	TOTAL EFFICIENCY (%)	DB AT 3mtr	RPM	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
15000	40	PLUG FAN	900	8.84	10	74.9	70	744	1100	1200	550	1035	680	355
	50	PLUG FAN	900	8.84	10	75.7	71	794	1100	1200	550	1035	680	355
	60	PLUG FAN	900	8.84	10	75	73	843	1100	1200	550	1035	680	355
	70	PLUG FAN	900	8.84	10	73.6	75	891	1100	1200	550	1035	680	355
	80	PLUG FAN	900	8.84	15	72	76	938	1100	1200	550	1035	680	355
	90	PLUG FAN	900	8.84	15	70.4	77	982	1100	1200	550	1035	680	355
	100	PLUG FAN	900	8.84	15	68.9	78	1024	1100	1200	550	1035	680	355
	110	PLUG FAN	900	8.84	20	67.6	80	1064	1100	1200	550	1035	680	355
	120	PLUG FAN	900	8.84	20	66.4	81	1102	1100	1200	550	1035	680	355
16000	40	PLUG FAN	900	9.42	7.5	73.9	71	769	1100	1200	550	1035	680	355
	50	PLUG FAN	900	9.42	7.5	75.4	72	815	1100	1200	550	1035	680	355
	60	PLUG FAN	900	9.42	10	75.6	73	816	1100	1200	550	1035	680	355
	70	PLUG FAN	900	9.42	10	74.8	75	907	1100	1200	550	1035	680	355
	80	PLUG FAN	900	9.42	15	73.5	76	952	1100	1200	550	1035	680	355
	90	PLUG FAN	900	9.42	15	72.1	77	996	1100	1200	550	1035	680	355
	100	PLUG FAN	900	9.42	15	70.7	79	1038	1100	1200	550	1035	680	355
	110	PLUG FAN	900	9.42	20	69.4	80	1078	1100	1200	550	1035	680	355
	120	PLUG FAN	900	9.42	20	68.2	81	1116	1100	1200	550	1035	680	355
18000	40	PLUG FAN	1000	8.59	7.5	75.2	73	661	1200	1300	594	1115	760	355
	50	PLUG FAN	1000	8.59	10	75.6	75	707	1200	1300	594	1115	760	355
	60	PLUG FAN	1000	8.59	10	74.5	77	753	1200	1300	594	1115	760	355
	70	PLUG FAN	1000	8.59	15	72.9	78	797	1200	1300	594	1115	760	355
	80	PLUG FAN	1000	8.59	15	71.2	79	839	1200	1300	594	1115	760	355
	90	PLUG FAN	1000	8.59	20	69.6	80	879	1200	1300	594	1115	760	355
	100	PLUG FAN	1000	8.59	20	68.2	82	916	1200	1300	594	1115	760	355
	110	PLUG FAN	1000	8.59	20	66.8	82	952	1200	1300	594	1115	760	355
	120	PLUG FAN	1000	8.59	25	65.6	83	987	1200	1300	594	1115	760	355
20000	40	PLUG FAN	1000	9.54	10	73.6	75	697	1200	1300	594	1115	760	355
	50	PLUG FAN	1000	9.54	10	75.3	76	737	1200	1300	594	1115	760	355
	60	PLUG FAN	1000	9.54	15	75.6	77	779	1200	1300	594	1115	760	355
	70	PLUG FAN	1000	9.54	15	75	78	820	1200	1300	594	1115	760	355
	80	PLUG FAN	1000	9.54	15	73.8	80	860	1200	1300	594	1115	760	355
	90	PLUG FAN	1000	9.54	20	72.4	81	899	1200	1300	594	1115	760	355
	100	PLUG FAN	1000	9.54	20	71	82	937	1200	1300	594	1115	760	355
	110	PLUG FAN	1000	9.54	25	69.8	83	972	1200	1300	594	1115	760	355
	120	PLUG FAN	1000	9.54	25	68.6	84	1007	1200	1300	594	1115	760	355

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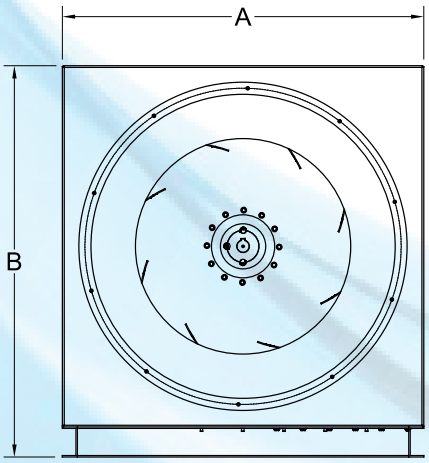

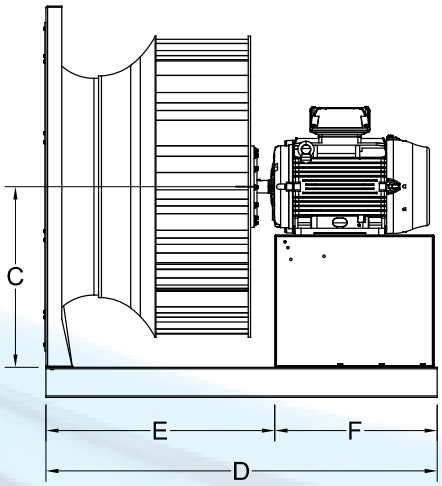

CENTRIFUGAL FAN (BACKWARD CURVED-PLUG FAN)

AIR VOLUME (CFM)	STATIC PRESSURE (mmwg)	FAN TYPE	FAN DIA (mm)	Unit Outlet Vel. (m/s)	MOTOR (HP)	TOTAL EFFICIENCY (%)	DB AT 3mtr	RPM	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
24000	40	PLUG FAN	1120	9.13	10	74.4	74	608	1340	1440	670	1220	830	390
	50	PLUG FAN	1120	9.13	15	75.6	76	646	1340	1440	670	1220	830	390
	60	PLUG FAN	1120	9.13	15	75.4	78	684	1340	1440	670	1220	830	390
	70	PLUG FAN	1120	9.13	20	74.3	79	722	1340	1440	670	1220	830	390
	80	PLUG FAN	1120	9.13	20	72.8	80	759	1340	1440	670	1220	830	390
	90	PLUG FAN	1120	9.13	20	71.3	82	795	1340	1440	670	1220	830	390
	100	PLUG FAN	1120	9.13	25	69.8	83	828	1340	1440	670	1220	830	390
	110	PLUG FAN	1120	9.13	25	68.5	84	860	1340	1440	670	1220	830	390
	120	PLUG FAN	1120	9.13	30	67.3	84	891	1340	1440	670	1220	830	390
27000	40	PLUG FAN	1120	10.27	15	72.1	75	649	1340	1440	670	1220	830	390
	50	PLUG FAN	1120	10.27	15	74.3	77	682	1340	1440	670	1220	830	390
	60	PLUG FAN	1120	10.27	15	75.4	78	716	1340	1440	670	1220	830	390
	70	PLUG FAN	1120	10.27	20	75.6	80	750	1340	1440	670	1220	830	390
	80	PLUG FAN	1120	10.27	20	75.1	81	784	1340	1440	670	1220	830	390
	90	PLUG FAN	1120	10.27	25	74.1	82	817	1340	1440	670	1220	830	390
	100	PLUG FAN	1120	10.27	25	72.9	83	850	1340	1440	670	1220	830	390
	110	PLUG FAN	1120	10.27	30	71.7	84	882	1340	1440	670	1220	830	390
	120	PLUG FAN	1120	10.27	40	70.6	85	912	1340	1440	670	1220	830	390
28000	40	PLUG FAN	1120	10.65	15	71.2	76	663	1340	1440	670	1220	830	390
	50	PLUG FAN	1120	10.65	15	73.7	77	695	1340	1440	670	1220	830	390
	60	PLUG FAN	1120	10.65	20	75.1	79	727	1340	1440	670	1220	830	390
	70	PLUG FAN	1120	10.65	20	75.7	80	760	1340	1440	670	1220	830	390
	80	PLUG FAN	1120	10.65	20	75.5	81	793	1340	1440	670	1220	830	390
	90	PLUG FAN	1120	10.65	25	74.7	82	826	1340	1440	670	1220	830	390
	100	PLUG FAN	1120	10.65	30	73.7	83	858	1340	1440	670	1220	830	390
	110	PLUG FAN	1120	10.65	30	72.7	84	889	1340	1440	670	1220	830	390
	120	PLUG FAN	1120	10.65	40	71.5	85	920	1340	1440	670	1220	830	390

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HUMIDIN

Sales & Marketing Department

North India: (Ventilation Dept.)
Phone: +91-9654400710
Email Id: tc@humidin.com

East India: (Ventilation Dept.)
Phone: +91-9654551093
Email Id: tceast@humidin.com

West India: (Ventilation Dept.)
Phone: +91-9654551015
Email id: tcwest@humidin.com

South India: (Ventilation Dept.)
Phone: +91-9654781452
Email Id: tcsouth@humidin.com

All India: (Air Handling Unit Dept.)
Phone: +91-9654557807
Email Id: ahu@humidin.com

After Sales Service Department (24x7)
Phone: +91-9654452926
Email Id: service@humidin.com

COUNTRIES:
RIYADH:
Email Id: riyadh@humidin.com

EGYPT:
Email Id: egypt@humidin.com

HR Department
Phone: +91-7290065533
Email Id: hr@humidin.com
hrmanager@humidin.com

Finance Department
Phone: +91-9654452925
Email Id: accounts@humidin.com

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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.

Plot C18, Tronica City Industrial Area
Loni Dist. -201102