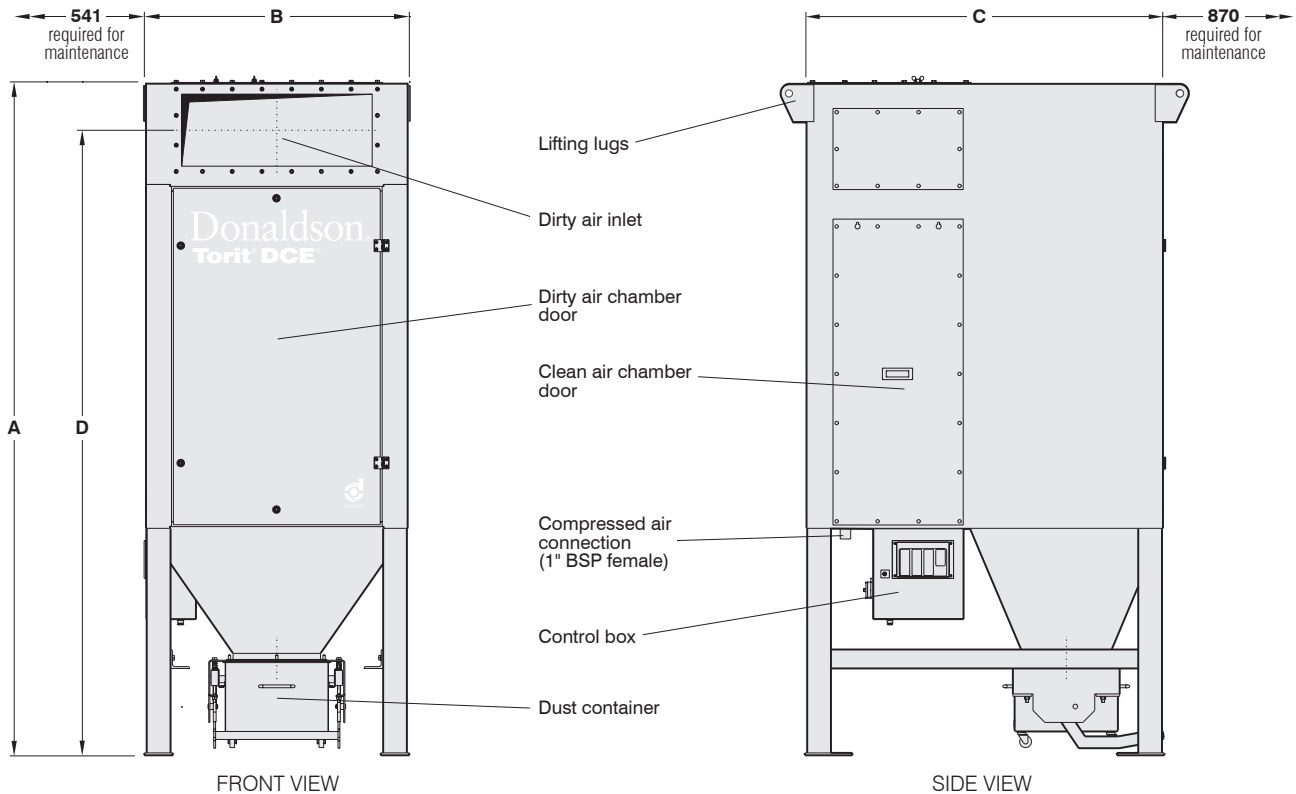


DFPRO Dust Collectors

Series DFPRO 4-16 and DFPRO-R 4-16



DFPRO STANDARD DUST COLLECTOR

Model DFPRO 6 illustrated

		DIMENSIONS (in mm)			
		DFPRO 6	DFPRO 8	DFPRO 12	DFPRO 16
Standard (400 mm hopper clearance*)	A (Height)	2750	3205	2750	3205
	B (Width)	1100	1100	2100	2100
	C (Depth)	1500	1500	1500	1500
	D (Height to Inlet)	2594	3004	2531	2986
Number of filter elements		6	8	12	16
Filtration area (Ultra Web®)		106.0 m ²	141.2 m ²	211.8 m ²	282.4 m ²

*For 1065 mm hopper clearance add 665 mm to height 'A'. For 1500 mm hopper clearance add 1100 mm to height 'A'.

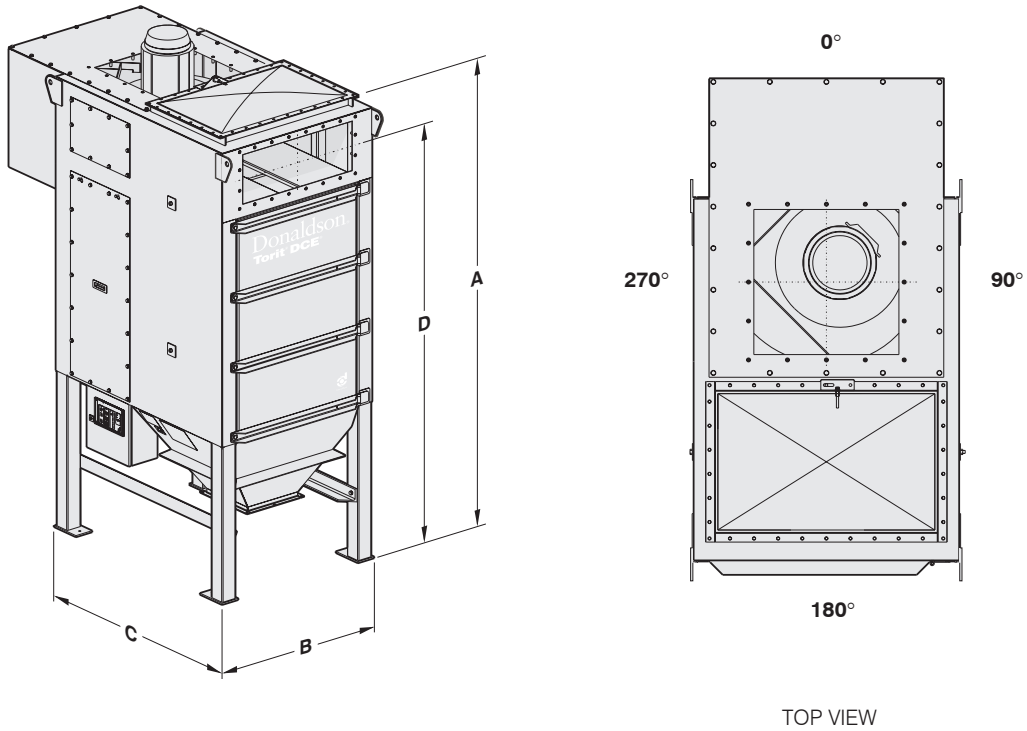
DESIGN SPECIFICATIONS (standard equipment)

Operating temperature: -10° to +65°C

Maximum operating pressure range: ±5 kPa (500 mm WG)

Wind load rating: 160 km/h

Finishing: Acrylated alkyd paint colour RAL 5019 (blue) – semi gloss



DFPRO REINFORCED DUST COLLECTOR

Model DFPRO 6 illustrated

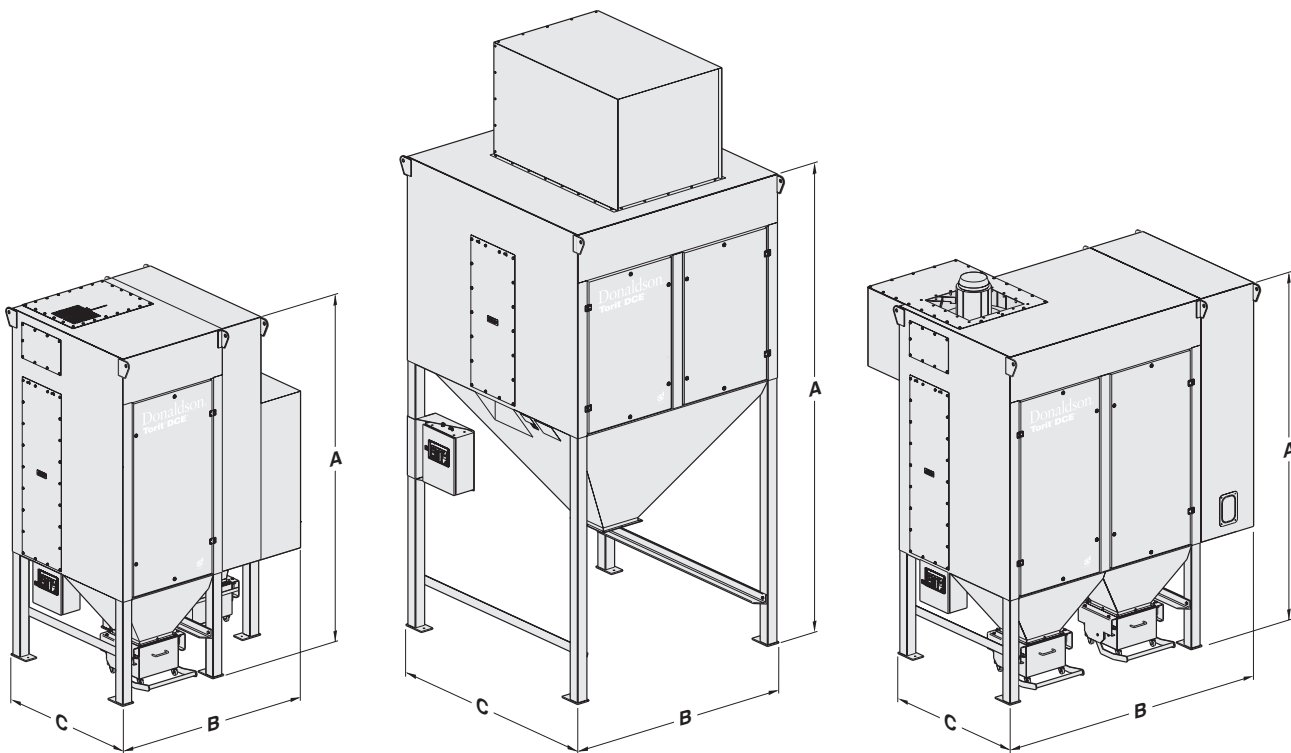
		DIMENSIONS (in mm)				
		DFPRO 4	DFPRO 6	DFPRO 8	DFPRO 12	DFPRO 16
Reinforced (400 mm hopper clearance*)	A (Height)	2390	2845	3300	2845	3300
	B (Width)	1100	1100	1100	2100	2100
	C (Depth)	1560**	1560**	1560**	1560**	1560**
	D (Height to Inlet)	2094	2594	3004	2531	2986
	Number of filter elements	4	6	8	12	16
	Filtration area (Ultra Web®)	70.6 m ²	106.0 m ²	141.2 m ²	211.8 m ²	282.4 m ²

*For 1065 mm hopper clearance add 665 mm to height 'A'. For 1500 mm hopper clearance add 1100 mm to height 'A'.
**Includes reinforcements on door.

COMPRESSED AIR REQUIREMENTS

- Max. 7 bar
- Pressure range 6-7 bar
- Clean air (max. particle size 50 µm)
- Free of condensate at working temperature
- Max. oil content: 3 mg/m³
- Approx. compressed air usage*: ±45 Nlitres per pulse
(±16.2 Nm³/h for 10 s pulse interval at 7 bar)

* The indicated value is the consumption per valve



**DFPRO CYCLOPEEL
DUST COLLECTOR**
Model DFPRO 8 illustrated

**DFPRO DROP OUT BOX
DUST COLLECTOR**
Model DFPRO 12 illustrated

**DFPRO SPARKTRAP
DUST COLLECTOR**
Model DFPRO 16 illustrated

		DIMENSIONS (in mm)				
		DFPRO 4	DFPRO 6	DFPRO 8	DFPRO 12	DFPRO 16
Cyclopeel (400 mm hopper clearance*)	A (Height)	2295	2750	3205	2947	3402
	B (Width)	1733	1811	1963	3225	3556
	C (Depth)	1500	1500	1500	1500	1500
	D (Height to Inlet)	–	–	–	–	–
Drop Out Box (1065 mm hopper clearance**)	A (Height)	2960	3415	3870	4120	4575
	B (Width)	1600	1600	1750	2100	2100
	C (Depth)	1500	1500	1500	2200	2200
	D (Height to Inlet)	2725	3130	3585	3785	4167
Sparktrap (400 mm hopper clearance*)	A (Height)	–	2750	3205	2750	3205
	B (Width)	–	1410	1355	2420	2500
	C (Depth)	–	1500	1500	1500	1500
	D (Height to Inlet)	–	–	–	–	–
Number of filter elements		4	6	8	12	16
Filtration area (Ultra Web®)		70.6 m ²	106.0 m ²	141.2 m ²	211.8 m ²	282.4 m ²
*For 1065 mm hopper clearance add 665 mm to height 'A'. For 1500 mm hopper clearance add 1100 mm to height 'A'.						
**For 1500 mm hopper clearance add 435 mm to height 'A'.						

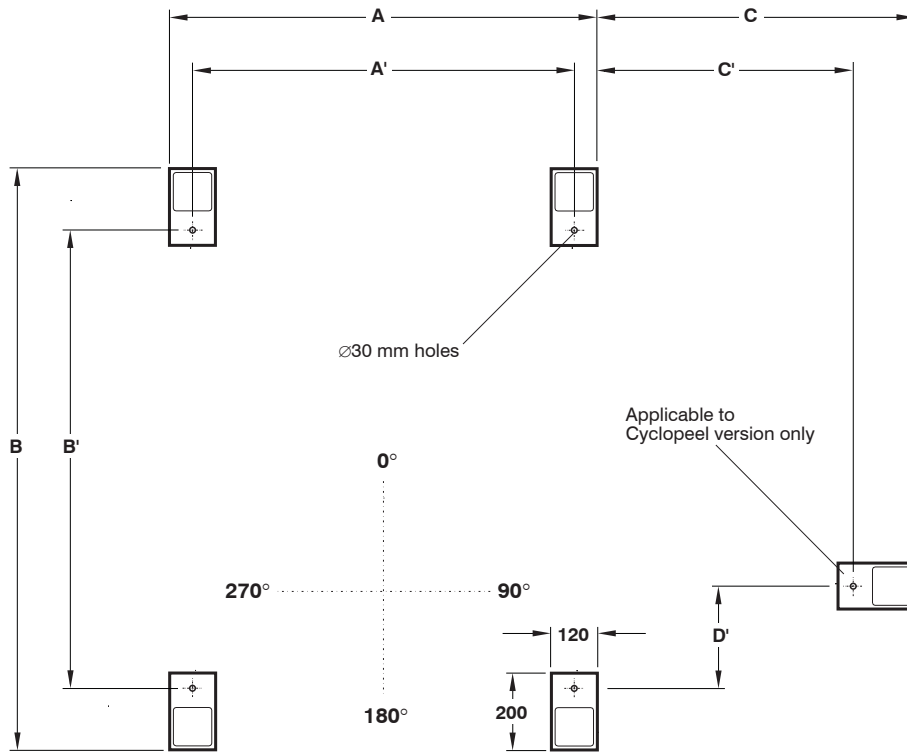
NOISE LEVEL*

Pulse noise*

LpAeq: ≤ 75 dB (A-weighted equivalent continuous sound pressure level)

ΔLi: ≤ 10 dB (impulsive noise content)

* Measurement according to DIN 45635/1 at 1m distance, with 6 bar compressed air pressure, pulse interval of 15s, semi-free field conditions and usual tolerance ±2 dB.



FOUNDATION DETAILS

		DIMENSIONS (in mm)				
		DFPRO 4	DFPRO 6	DFPRO 8	DFPRO 12	DFPRO 16
Standard	Width A	–	1115	1115	2115	2115
	A'	–	994	994	1994	1994
	Depth B	–	1513	1513	1513	1513
	B'	–	1193	1193	1193	1193
Reinforced	Width A	1115	1115	1115	2115	2115
	A'	994	994	994	1994	1994
	Depth B	1513	1513	1513	1513	1513
	B'	1193	1193	1193	1193	1193
Sparktrap	Width A	–	1115	1115	2115	2115
	A'	–	994	994	1994	1994
	Depth B	–	1513	1513	1513	1513
	B'	–	1193	1193	1193	1193
Cyclopeel	Width A	1115	1115	1115	2115	2115
	A'	994	994	994	1994	1994
	Depth B	1513	1513	1513	1513	1513
	B'	1193	1193	1193	1193	1193
	Width C	595	668	826	1088	1419
	C'	435	508	666	928	1259
	D'	200	670	266	411	461
Drop Out Box	Width A	1614	1614	1764	2114	2114
	A'	1494	1494	1644	1994	1994
	Depth B	1513	1513	1513	2213	2463
	B'	1193	1193	1193	1893	2143

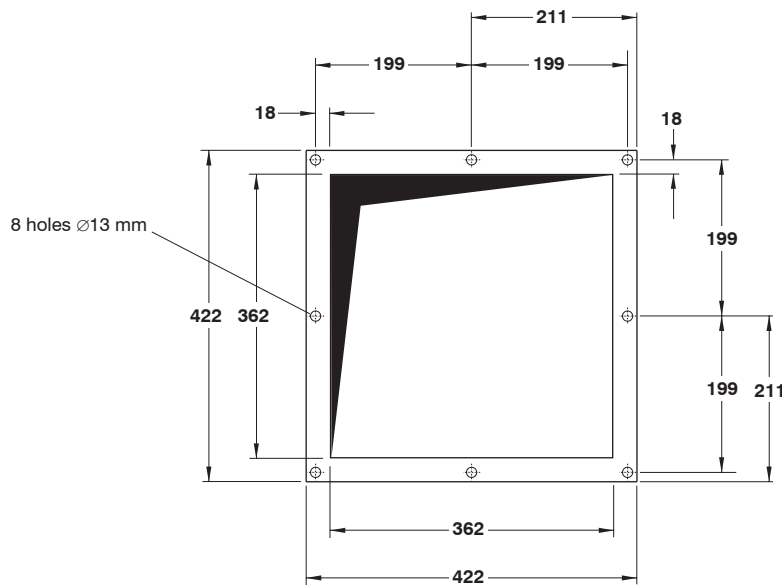
COLLECTOR WEIGHTS (in kg)

Weights include filter cartridges and are for collectors prior to first use, i.e. with no dust collected.
 Add 40 kg for each EZ bin pack.
 * Excludes fan set weight (see table below).
 ** Includes bursting panel.

FAN SET WEIGHTS	
VCM 403S (2.2 kW)	41 kg
VCM 451S (3 kW)	70 kg
ART 452 (4 kW)	98 kg
ART 451 (5.5 kW)	110 kg
MEC 451 (7.5 kW)	152 kg
ART 502 (7.5 kW)	144 kg
ART 501 (9 kW)	201 kg
MEC 502 (9 kW)	230 kg
ART 562 (11 kW)	221 kg
FP 501 (11 kW)	242 kg
ART 561 (15 kW)	232 kg
FQ 562 (15 kW)	292 kg
FQ 561 (18.5 kW)	292 kg
FR 501 (18.5 kW)	195 kg
ART 632 (22 kW)	307 kg

	Fully integrated fan set*						Integrated fan set* and single hopper						Integrated fan set* and double hopper																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
	DFPRO 4	DFPRO 6	DFPRO 8	DFPRO 12	DFPRO 16	DFPRO 16	DFPRO 4	DFPRO 6	DFPRO 8	DFPRO 12	DFPRO 16	DFPRO 16	DFPRO 4	DFPRO 6	DFPRO 8	DFPRO 12	DFPRO 16																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Standard																		400 mm hopper clearance	740	870	870	848	848	718	718	848	848	812	812	679	718	848	848	812	812	1065 mm hopper clearance	765	895	895	873	873	743	743	873	873	837	837	704	743	873	873	837	837	1500 mm hopper clearance	790	920	920	898	898	768	768	898	898	862	862	729	768	898	898	862	862	Reinforced**																		400 mm hopper clearance	834	965	965	943	943	812	812	943	943	906	906	778	812	943	943	906	906	1065 mm hopper clearance	859	990	990	968	968	837	837	968	968	932	932	803	837	968	968	932	932	1500 mm hopper clearance	884	1015	1015	993	993	862	862	993	993	929	929	828	862	993	993	929	929	Sparktrap																		400 mm hopper clearance	861	1082	1082	1060	1060	839	839	1060	1060	1025	1025	898	839	1060	1060	1025	1025	1065 mm hopper clearance	886	1107	1107	1085	1085	864	864	1085	1085	1049	1049	923	864	1085	1085	1049	1049	1500 mm hopper clearance	911	1132	1132	1110	1110	889	889	1110	1110	1074	1074	958	889	1110	1110	1074	1074	Cyclopeel																		400 mm hopper clearance	1020	1280	1280	1258	1258	998	998	1258	1258	1213	1213	1078	998	1258	1258	1213	1213	1065 mm hopper clearance	1045	1305	1305	1283	1283	1023	1023	1283	1283	1238	1238	1103	1023	1283	1283	1238	1238	1500 mm hopper clearance	1070	1330	1330	1308	1308	1048	1048	1308	1308	1258	1258	1128	1048	1308	1308	1258	1258	Drop Out Box																		1065 mm hopper clearance	1010	1140	1140	1118	1118	988	988	1118	1118	1078	1078	948	988	1118	1118	1078	1078	1500 mm hopper clearance	1035	1165	1165	1143	1143	1013	1013	1143	1143	1103	1103	973	1013	1143	1143	1103	1103	Standard																		400 mm hopper clearance	776	906	906	884	884	700	700	830	830	700	700	566	700	830	830	700	566	1065 mm hopper clearance	801	931	931	909	909	725	725	855	855	725	725	591	725	855	855	725	591	1500 mm hopper clearance	826	956	956	934	934	750	750	880	880	750	750	616	750	880	880	750	616	Reinforced**																		400 mm hopper clearance	870	1001	1001	979	979	794	794	925	925	794	794	661	794	925	925	794	661	1065 mm hopper clearance	895	1026	1026	1004	1004	819	819	950	950	819	819	686	819	950	950	819	686	1500 mm hopper clearance	920	1051	1051	1029	1029	844	844	975	975	844	844	711	844	975	975	844	711	Sparktrap																		400 mm hopper clearance	897	1118	1118	1096	1096	821	821	1042	1042	821	821	686	821	1042	1042	821	686	1065 mm hopper clearance	922	1143	1143	1121	1121	846	846	1067	1067	846	846	711	846	1067	1067	846	711	1500 mm hopper clearance	947	1168	1168	1146	1146	871	871	1092	1092	871	871	736	871	1092	1092	871	736	Cyclopeel																		400 mm hopper clearance	1056	1316	1316	1294	1294	980	980	1240	1240	980	980	846	980	1240	1240	980	846	1065 mm hopper clearance	1081	1341	1341	1319	1319	1005	1005	1265	1265	1005	1005	871	1005	1265	1265	1005	871	1500 mm hopper clearance	1106	1366	1366	1344	1344	1030	1030	1290	1290	1030	1030	896	1030	1290	1290	1030	896	Drop Out Box																		1065 mm hopper clearance	1046	1176	1176	1154	1154	970	970	1100	1100	970	970	836	970	1100	1100	970	836	1500 mm hopper clearance	1071	1201	1201	1179	1179	995	995	1125	1125	995	995	861	995	1125	1125	995	861
400 mm hopper clearance	740	870	870	848	848	718	718	848	848	812	812	679	718	848	848	812	812																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
1065 mm hopper clearance	765	895	895	873	873	743	743	873	873	837	837	704	743	873	873	837	837																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
1500 mm hopper clearance	790	920	920	898	898	768	768	898	898	862	862	729	768	898	898	862	862																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Reinforced**																		400 mm hopper clearance	834	965	965	943	943	812	812	943	943	906	906	778	812	943	943	906	906	1065 mm hopper clearance	859	990	990	968	968	837	837	968	968	932	932	803	837	968	968	932	932	1500 mm hopper clearance	884	1015	1015	993	993	862	862	993	993	929	929	828	862	993	993	929	929	Sparktrap																		400 mm hopper clearance	861	1082	1082	1060	1060	839	839	1060	1060	1025	1025	898	839	1060	1060	1025	1025	1065 mm hopper clearance	886	1107	1107	1085	1085	864	864	1085	1085	1049	1049	923	864	1085	1085	1049	1049	1500 mm hopper clearance	911	1132	1132	1110	1110	889	889	1110	1110	1074	1074	958	889	1110	1110	1074	1074	Cyclopeel																		400 mm hopper clearance	1020	1280	1280	1258	1258	998	998	1258	1258	1213	1213	1078	998	1258	1258	1213	1213	1065 mm hopper clearance	1045	1305	1305	1283	1283	1023	1023	1283	1283	1238	1238	1103	1023	1283	1283	1238	1238	1500 mm hopper clearance	1070	1330	1330	1308	1308	1048	1048	1308	1308	1258	1258	1128	1048	1308	1308	1258	1258	Drop Out Box																		1065 mm hopper clearance	1010	1140	1140	1118	1118	988	988	1118	1118	1078	1078	948	988	1118	1118	1078	1078	1500 mm hopper clearance	1035	1165	1165	1143	1143	1013	1013	1143	1143	1103	1103	973	1013	1143	1143	1103	1103	Standard																		400 mm hopper clearance	776	906	906	884	884	700	700	830	830	700	700	566	700	830	830	700	566	1065 mm hopper clearance	801	931	931	909	909	725	725	855	855	725	725	591	725	855	855	725	591	1500 mm hopper clearance	826	956	956	934	934	750	750	880	880	750	750	616	750	880	880	750	616	Reinforced**																		400 mm hopper clearance	870	1001	1001	979	979	794	794	925	925	794	794	661	794	925	925	794	661	1065 mm hopper clearance	895	1026	1026	1004	1004	819	819	950	950	819	819	686	819	950	950	819	686	1500 mm hopper clearance	920	1051	1051	1029	1029	844	844	975	975	844	844	711	844	975	975	844	711	Sparktrap																		400 mm hopper clearance	897	1118	1118	1096	1096	821	821	1042	1042	821	821	686	821	1042	1042	821	686	1065 mm hopper clearance	922	1143	1143	1121	1121	846	846	1067	1067	846	846	711	846	1067	1067	846	711	1500 mm hopper clearance	947	1168	1168	1146	1146	871	871	1092	1092	871	871	736	871	1092	1092	871	736	Cyclopeel																		400 mm hopper clearance	1056	1316	1316	1294	1294	980	980	1240	1240	980	980	846	980	1240	1240	980	846	1065 mm hopper clearance	1081	1341	1341	1319	1319	1005	1005	1265	1265	1005	1005	871	1005	1265	1265	1005	871	1500 mm hopper clearance	1106	1366	1366	1344	1344	1030	1030	1290	1290	1030	1030	896	1030	1290	1290	1030	896	Drop Out Box																		1065 mm hopper clearance	1046	1176	1176	1154	1154	970	970	1100	1100	970	970	836	970	1100	1100	970	836	1500 mm hopper clearance	1071	1201	1201	1179	1179	995	995	1125	1125	995	995	861	995	1125	1125	995	861																																																																								
400 mm hopper clearance	834	965	965	943	943	812	812	943	943	906	906	778	812	943	943	906	906																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
1065 mm hopper clearance	859	990	990	968	968	837	837	968	968	932	932	803	837	968	968	932	932																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
1500 mm hopper clearance	884	1015	1015	993	993	862	862	993	993	929	929	828	862	993	993	929	929																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Sparktrap																		400 mm hopper clearance	861	1082	1082	1060	1060	839	839	1060	1060	1025	1025	898	839	1060	1060	1025	1025	1065 mm hopper clearance	886	1107	1107	1085	1085	864	864	1085	1085	1049	1049	923	864	1085	1085	1049	1049	1500 mm hopper clearance	911	1132	1132	1110	1110	889	889	1110	1110	1074	1074	958	889	1110	1110	1074	1074	Cyclopeel																		400 mm hopper clearance	1020	1280	1280	1258	1258	998	998	1258	1258	1213	1213	1078	998	1258	1258	1213	1213	1065 mm hopper clearance	1045	1305	1305	1283	1283	1023	1023	1283	1283	1238	1238	1103	1023	1283	1283	1238	1238	1500 mm hopper clearance	1070	1330	1330	1308	1308	1048	1048	1308	1308	1258	1258	1128	1048	1308	1308	1258	1258	Drop Out Box																		1065 mm hopper clearance	1010	1140	1140	1118	1118	988	988	1118	1118	1078	1078	948	988	1118	1118	1078	1078	1500 mm hopper clearance	1035	1165	1165	1143	1143	1013	1013	1143	1143	1103	1103	973	1013	1143	1143	1103	1103	Standard																		400 mm hopper clearance	776	906	906	884	884	700	700	830	830	700	700	566	700	830	830	700	566	1065 mm hopper clearance	801	931	931	909	909	725	725	855	855	725	725	591	725	855	855	725	591	1500 mm hopper clearance	826	956	956	934	934	750	750	880	880	750	750	616	750	880	880	750	616	Reinforced**																		400 mm hopper clearance	870	1001	1001	979	979	794	794	925	925	794	794	661	794	925	925	794	661	1065 mm hopper clearance	895	1026	1026	1004	1004	819	819	950	950	819	819	686	819	950	950	819	686	1500 mm hopper clearance	920	1051	1051	1029	1029	844	844	975	975	844	844	711	844	975	975	844	711	Sparktrap																		400 mm hopper clearance	897	1118	1118	1096	1096	821	821	1042	1042	821	821	686	821	1042	1042	821	686	1065 mm hopper clearance	922	1143	1143	1121	1121	846	846	1067	1067	846	846	711	846	1067	1067	846	711	1500 mm hopper clearance	947	1168	1168	1146	1146	871	871	1092	1092	871	871	736	871	1092	1092	871	736	Cyclopeel																		400 mm hopper clearance	1056	1316	1316	1294	1294	980	980	1240	1240	980	980	846	980	1240	1240	980	846	1065 mm hopper clearance	1081	1341	1341	1319	1319	1005	1005	1265	1265	1005	1005	871	1005	1265	1265	1005	871	1500 mm hopper clearance	1106	1366	1366	1344	1344	1030	1030	1290	1290	1030	1030	896	1030	1290	1290	1030	896	Drop Out Box																		1065 mm hopper clearance	1046	1176	1176	1154	1154	970	970	1100	1100	970	970	836	970	1100	1100	970	836	1500 mm hopper clearance	1071	1201	1201	1179	1179	995	995	1125	1125	995	995	861	995	1125	1125	995	861																																																																																																																																																
400 mm hopper clearance	861	1082	1082	1060	1060	839	839	1060	1060	1025	1025	898	839	1060	1060	1025	1025																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
1065 mm hopper clearance	886	1107	1107	1085	1085	864	864	1085	1085	1049	1049	923	864	1085	1085	1049	1049																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
1500 mm hopper clearance	911	1132	1132	1110	1110	889	889	1110	1110	1074	1074	958	889	1110	1110	1074	1074																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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1500 mm hopper clearance	1106	1366	1366	1344	1344	1030	1030	1290	1290	1030	1030	896	1030	1290	1290	1030	896																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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DIRTY AIR INLET DETAILS						
	DIN standard	DFPRO 4	DFPRO 6	DFPRO 8	DFPRO 12	DFPRO 16
Standard	DIN 24193/2 (mm)	–	800 x 300	800 x 300	1600 x 300	1600 x 300
Reinforced	DIN 24193/2 (mm)	800 x 300	800 x 300	800 x 300	1600 x 300	1600 x 300
Sparktrap	Pipe (nominal)	–	224	250	315	355
Cyclopeel	DIN 24154/2 nominal dia.	NW 140	NW 160	NW 200	NW 250	NW 280
		NW 160	NW 180	NW 224	NW 280	NW 315
		NW 180	NW 200	NW 250	NW 315	NW 355
		NW 200	NW 224	NW 280	NW 355	NW 400
		NW 224	NW 250	NW 315	NW 400	NW 450
		NW 250	NW 280	NW 355	NW 450	NW 500
Drop Out Box	DIN 24154/2 nominal dia.	NW 280	NW 315	NW 400	NW 500	NW 560
		NW 250	NW 315	NW 355	NW 450	NW 500
		NW 280	NW 355	NW 400	NW 500	NW 560
		NW 315	NW 400	NW 450	NW 560	NW 630
		NW 355	NW 400	NW 450	NW 560	NW 710

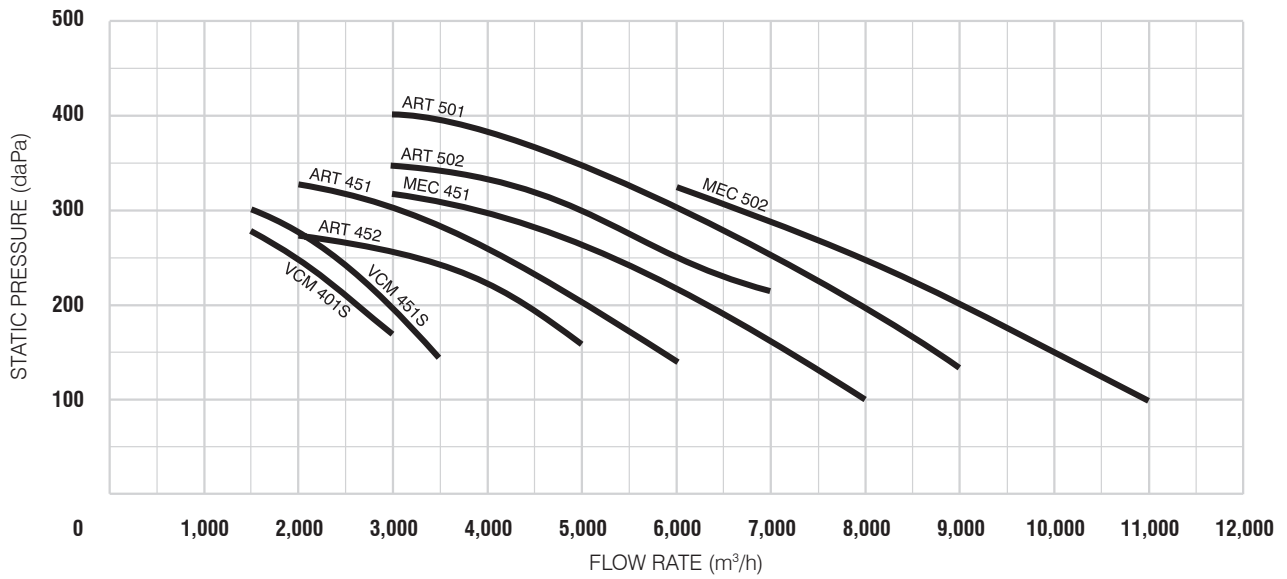


HOPPER FLANGE DETAILS (362 x 362)

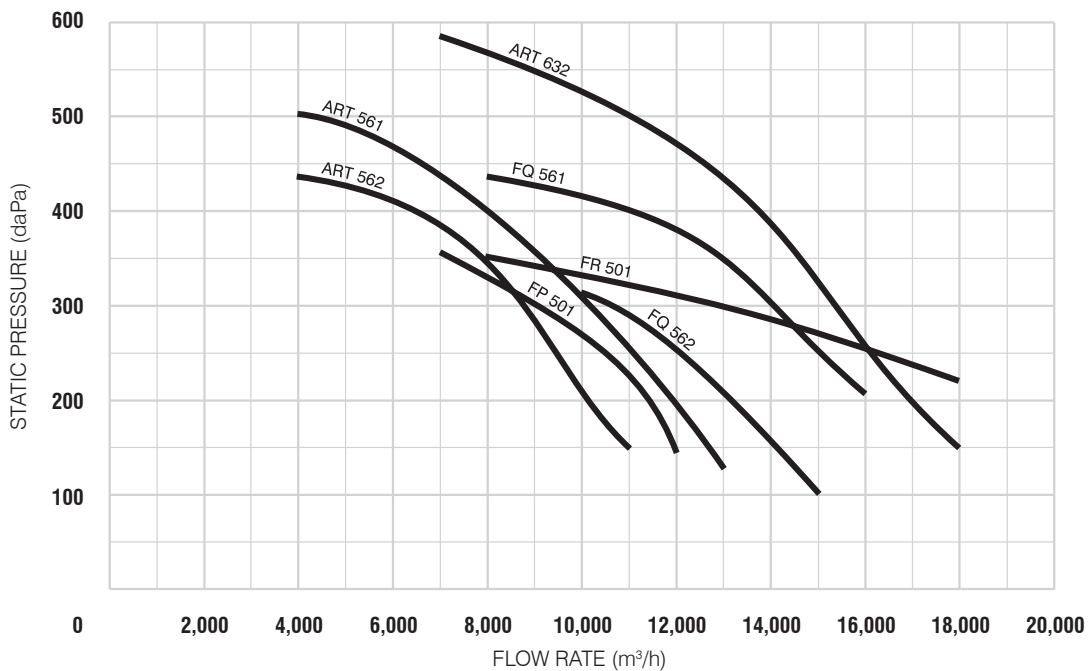
ELECTRICAL SPECIFICATIONS

Controls

- Full automatic cleaning mechanism: Torit Control Board
- Pulse time: 100 ms
- Interval time: 10 s
- Voltage input: 400V AC; 3 ph; 50 Hz;
- Protection class: IP65
- Solenoid voltage: 24V DC



FAN PERFORMANCE CURVES (2.2 to 9 kW)



FAN PERFORMANCE CURVES (11 to 22 kW)

FAN SELECTION

These curves indicate static pressure available at fan inlet for a given application, when fitted into a collector.

To select the most suitable fan for a given application:

- 1 Determine the air volume, in m³/h, needed to entrain the dust.
- 2 Estimate pressure drop through connected system – i.e. between point of entrainment and collector inlet.
- 3 Assess pressure drop over dust collector, prior to replacing filter cartridges, usually 100 daPa.
- 4 The sum of 2 and 3 = static pressure at inlet.
- 5 Consult graph for fan performance available.

OPTIONS

- Outside installation
- Service platform with galvanized gratings, handrail and ladder
- Front inlet adaptor pieces
- Full range of dust disposal systems
- Full range of filter cartridges
- Blow off channels (vent pipe) on Reinforced version for indoor installations (1, 2 or 3m lengths)
- Pulse noise attenuation down to $L_{pAeq} \leq 70$ dB
- Earthing
- Compressed air – oil/water separator and accessories
- IAF Feeder for the absorption of oily substances

Equipment suitable for use in a potentially explosive atmosphere (Directive 94/9/EC) satisfying the requirements for group II category 2D and 3D T125°C is available