



Dry coolers: Double row of fans

The Mark AWD is a series of Dry Coolers with a double row of fans. Both the standard version and the low-noise version are available in cooling capacities from 163 kW to 763 kW.

The AWD Dry Coolers are compact and robust. They are made of galvanized steel for both horizontal and vertical mounting using the correct kit. The units are equipped with anchor and lifting points for placement.

The chassis and housing are fully protected with a paint layer with a high corrosion resistance that offers maximum weather resistance. The parts are each coated in RAL 9002 prior to assembly.

Mark double row Dry Coolers are equipped with heat exchangers with a copper tube and aluminum fins. They are equipped with a steel threaded connection.

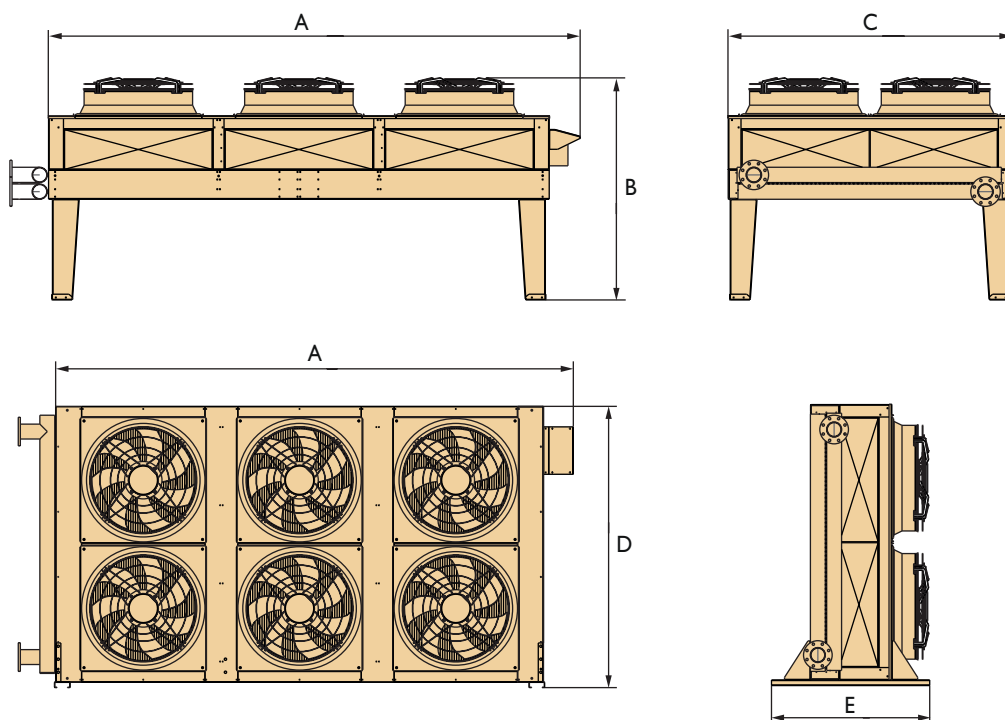
The fans incorporate 3-phase asynchronous external rotor motors with IP54 protection level, class F insulation, with the possibility of connecting them in star or delta, having in this way two speeds of operation.

Adaptation to the most restrictive noise conditions, this range of fan motors is available with a different number of poles.

Features Mark AWD

- Optimized EC fans
- Stainless steel housing
- Multi circuit water connection
- Compact
- Quiet
- Robust
- Economical
- Completely wired up to the terminal box

Dimensions



AWDN series - Ø 800 mm fans - standard version

Type	Number of fans	Surface m ²	Internal volume dm ³	Connection Ø	A mm	B mm	C mm	D mm	E mm	Weight kg
AWDN-44C-163M	4	340	45	3"	2775	1660	2120	2160	1215	691
AWDN-44D-184M		453	60							732
AWDN-44E-194M		566	74							772
AWDN-46C-245M	6	509	67	4"	3975	1660	2120	2160	1215	1145
AWDN-46D-276M		680	90							1265
AWDN-46E-293M		850	112							1385
AWDN-48C-330M	8	680	90	4"	8175	1660	2120	2160	1215	1263
AWDN-48D-368M		907	119							1345
AWDN-48E-391M		1133	149							1425

AWDB series - Ø 800 mm fans - low noise fans

Type	Number of fans	Surface m ²	Internal volume dm ³	Connection Ø	A mm	B mm	C mm	D mm	E mm	Weight kg
AWDB-44C-130M	4	340	45	3"	2775	1660	2120	2160	1215	670
AWDB-44D-141M		453	60							712
AWDB-44E-145M		566	74							752
AWDB-46C-195M	6	509	67	4"	3975	1660	2120	2160	1215	1115
AWDB-46D-211M		680	90							1235
AWDB-46E-219M		850	112							1355
AWDB-48C-259M	8	680	90	4"	8175	1660	2120	2160	1215	1223
AWDB-48D-281M		907	119							1305
AWDB-48E-293M		1133	149							1385

AWDN series - Ø 910 mm fans - standard version

Type	Number of fans	Surface m ²	Internal volume dm ³	Connection Ø	A mm	B mm	C mm	D mm	E mm	Weight kg
AWDN-54C-244L	4	542	71	3"	3975	1761	2246	2287	1275	912
AWDN-54D-276L		723	95							977
AWDN-54F-304L		1085	143							1107
AWDN-56C-379L	6	814	107	4"	5775	1761	2246	2287	1275	1311
AWDN-56D-428L		1085	143							1407
AWDN-56F-470L		1628	214							1599
AWDN-58C-431L	8	1157	132	4"	7575	1761	2246	2287	1275	1633
AWDN-58D-510L		1542	177							1746
AWDN-58F-602L		2314	265							1972
AWDN-510D-647L	10	1928	221	4"	9375	1761	2246	2287	1275	2140
AWDN-510F-763L		2892	332							2422

Technical information

AWDN series - Ø 800 mm fans - standard version

Type	~ 400v/50 Hz Connection Δ					~ 400v/50 Hz Connection Y				
	Capacity	Mass flow	Pressure drop	Power consumption	Sound	Capacity	Mass flow	Pressure drop	Power consumption	Sound
	kW	m³/h	kPa	kW	dB(A)	kW	m³/h	kPa	kW	dB(A)
AWDN-44C-163M	163	28	37	7,76	54	134	23	26	4,84	49
AWDN-44D-184M	184	32	42		56	148	26	29		50
AWDN-44E-194M	194	34	34		57	153	27	22		52
AWDN-46C-245M	245	43	36	11,64	56	201	35	25	7,26	50
AWDN-46D-276M	276	48	39		57	222	39	26		52
AWDN-46E-293M	293	51	38		59	230	40	25		53
AWDN-48C-330M	330	57	51	15,52	57	271	47	36	9,68	52
AWDN-48D-368M	368	64	40		59	296	52	27		53
AWDN-48E-391M	391	68	45		60	308	54	29		55

Room (environment) temperature = 25 °C. Water inlet T = 40 °C. Water outlet T = 35 °C.

AWDB series - Ø 800 mm fans - low noise fans

Type	~ 400v/50 Hz Connection Δ					~ 400v/50 Hz Connection Y				
	Capacity	Mass flow	Pressure drop	Power consumption	Sound	Capacity	Mass flow	Pressure drop	Power consumption	Sound
	kW	m³/h	kPa	kW	dB(A)	kW	m³/h	kPa	kW	dB(A)
AWDB-44C-130M	130	23	36	3,32	46	111	19	27	2	40
AWDB-44D-141M	141	24	26		48	116	20	18		42
AWDB-44E-145M	145	25	21		49	118	21	14		43
AWDB-46C-195M	195	34	37	4,98	47	167	29	28	3	42
AWDB-46D-211M	211	37	24		49	174	30	17		44
AWDB-46E-219M	219	38	23		51	178	31	16		45
AWDB-48C-259M	259	45	33	6,64	49	222	39	25	4	43
AWDB-48D-281M	281	49	25		51	232	40	18		45
AWDB-48E-293M	293	51	27		51	238	41	18		46

Room (environment) temperature = 25 °C. Water inlet T = 40 °C. Water outlet T = 35 °C.

AWDN series - Ø 910 mm fans - standard version

Type	~ 400v/50 Hz Connection Δ					~ 400v/50 Hz Connection Y				
	Capacity	Mass flow	Pressure drop	Power consumption	Sound	Capacity	Mass flow	Pressure drop	Power consumption	Sound
	kW	m³/h	kPa	kW	dB(A)	kW	m³/h	kPa	kW	dB(A)
AWDN-54C-244L	244	42	28	9,92	55	204	34	20	6,28	49
AWDN-54D-276L	276	47	26		56	227	39	18		50
AWDN-54F-304L	304	52	23		58	242	42	15		52
AWDN-56C-379L	379	65	65	14,88	57	316	54	47	9,42	51
AWDN-56D-428L	428	74	52		57	351	61	37		52
AWDN-56F-470L	470	81	36		59	374	64	24		54
AWDN-58C-431L	431	74	84	19,84	58	371	64	65	12,56	52
AWDN-58D-510L	509	88	74		58	432	75	55		52
AWDN-58F-602L	602	104	59		59	494	85	41		54
AWDN-510D-647L	646	112	136	24,8	59	547	95	101	15,7	53
AWDN-510F-763L	763	132	105		60	626	108	73		55

Room (environment) temperature = 25 °C. Water inlet T = 40 °C. Water outlet T = 35 °C.