

Plug fan C

ER90C

Motor PMblue IE4 and AMblue IE3



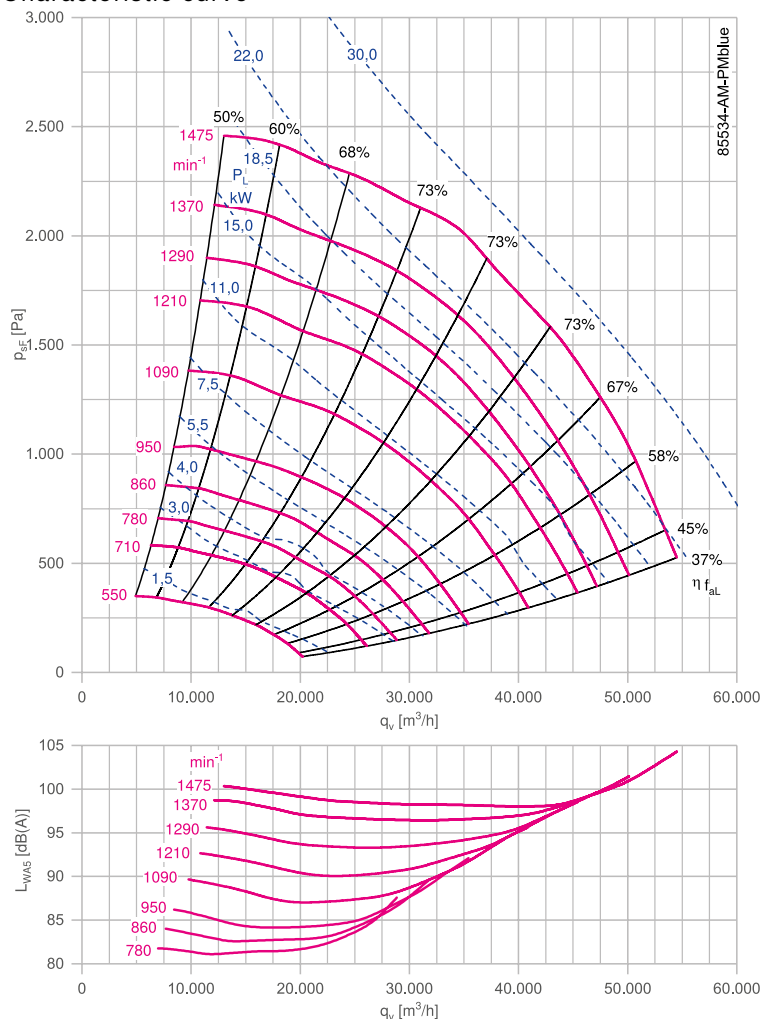
Description

Plug fan with high performance centrifugal impeller
Impeller made of bright sheet metal powder-coated according to resistance class 1 RAL 5002 (ultramarine blue)
Inlet nozzle with measuring device for air flow measurement
Motor with built-on PMIcontrol basic-M
Fitting position H
Rated voltage U: 3~ 380-480 V
Rated frequency f: 50/60 Hz
Motor protection: PTC resistor
Degree of protection : IP54
Thermal class: THCL155
Min. permitted ambient temperature: -20 °C
Max. permitted ambient temperature: 40 °C
Conformity: ErP 2015, CE, EAC

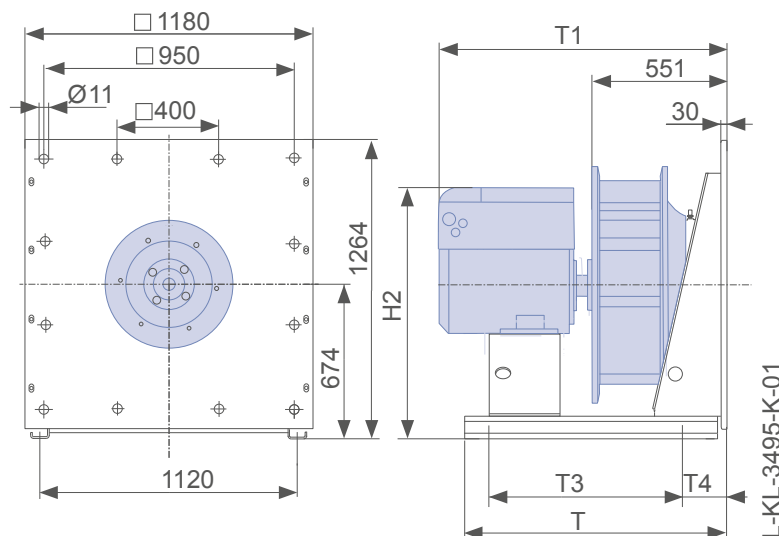
Nozzle coefficients

Standard k	789
With guard grille k _g	756

Characteristic curve



Dimensions mm



C-PMblue IE4										
Rated power P_N kW	Type	Article no.	Motor size	Motor efficiency η_{mot} %	Rated current I_N A	Rated speed n_N rpm	Maximum speed n_{max} rpm	Input power P_{sys} kW	Efficiency η_{statA} %	Efficiency grade N_{actual}^*
7.40	ER90C-6IN.H7.1R	115638/0P61	132M	92.5	13.0-10.5	950	950	8.00	69.3	70.5
14.90	ER90C-6IN.H7.1R	115639/0P61	132M	94.5	19.0-15.0	1200	1020	10.00	70.9	71.2
14.90	ER90C-6IN.H7.1R	115640/0P61	132M	94.5	26.0-21.0	1200	1160	15.00	70.9	70.6

* ErP 2015 Target N=62 | expected limit for ErP 2020 N=64

P_N kW	Type	Weight kg	T mm	T1 mm	T3 mm	T4 mm	H2 mm	Flexible inlet connector	Guard grille	Vibration damper	
										Spring	Rubber
7.40	ER90C-6IN.H7.1R	251.00	1160	1011	893	115	937	00403351	00411648	02006450	02001674
14.90	ER90C-6IN.H7.1R	274.00	1160	1062	893	115	998	00403351	00411648	02006450	02000407
14.90	ER90C-6IN.H7.1R	274.00	1160	1062	893	115	998	00403351	00411648	02006451	02000407

C-AMblue IE3										
Rated power P_N kW	Type	Article no.	Motor size	Motor efficiency η_{mot} %	Rated current I_N A	Rated speed n_N rpm	Maximum speed n_{max} rpm	Input power P_{sys} kW	Efficiency η_{statA} %	Efficiency grade N_{actual}^*
7.5	ER90C-6HN.I7.1R	130539/0A41	160M	89.1	16.5-13.0	970	950	8.80	66.8	67.8
11.00	ER90C-6HN.K7.1R	130540/0A41	160L	90.3	24.0-19.0	970	1090	13.50	67.7	67.6
15.00	ER90C-6HN.M7.1R	130541/0A41	180L	91.2	30.0-24.0	978	1210	17.50	68.4	67.9

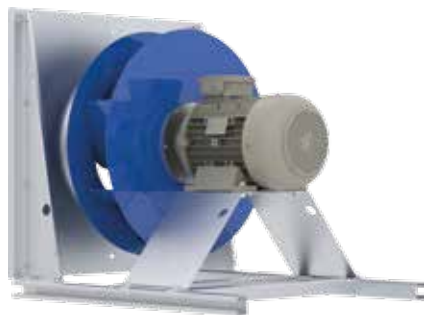
* ErP 2015 Target N=62 | expected limit for ErP 2020 N=64

P_N kW	Type	Weight kg	T mm	T1 mm	T3 mm	T4 mm	H2 mm	Flexible inlet connector	Guard grille	Vibration damper	
										Spring	Rubber
7.5	ER90C-6HN.I7.1R	309.00	1060	1084	893	115	978	00403351	00411648	02006450	02001674
11.00	ER90C-6HN.K7.1R	343.00	1160	1128	998	115	1038	00403351	00411648	02006451	02000407
15.00	ER90C-6HN.M7.1R	409.00	1320	1202	1103	115	1054	00403351	00411648	02006451	02000407

Plug fan C

ER90C

Motor ZAmotpremium IE2 and IE3



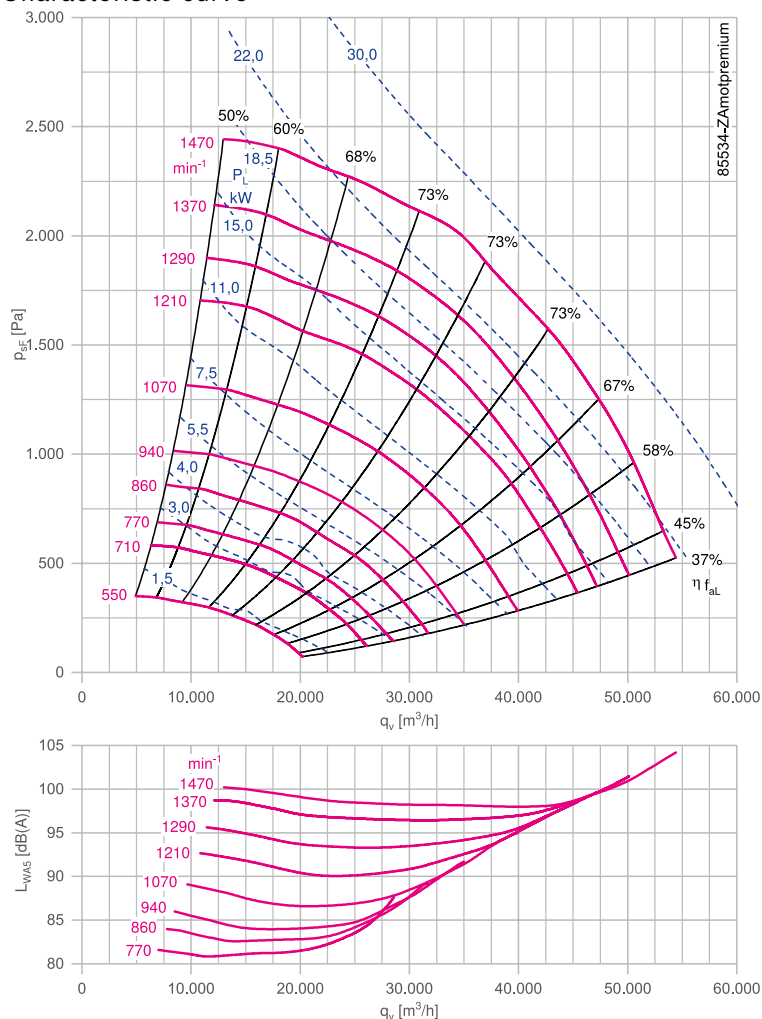
Description

Plug fan with high performance centrifugal impeller
Impeller made of bright sheet metal powder-coated according to resistance class 1 RAL 5002 (ultramarine blue)
Inlet nozzle with measuring device for air flow measurement
Fitting position H
Rated voltage U: 3~ 400 V
Rated frequency f: 50 Hz
Motor protection: PTC resistor
Degree of protection : IP55
Thermal class: THCL155
Min. permitted ambient temperature: -20 °C
Max. permitted ambient temperature: 40 °C
Conformity: ErP 2015, CE, EAC

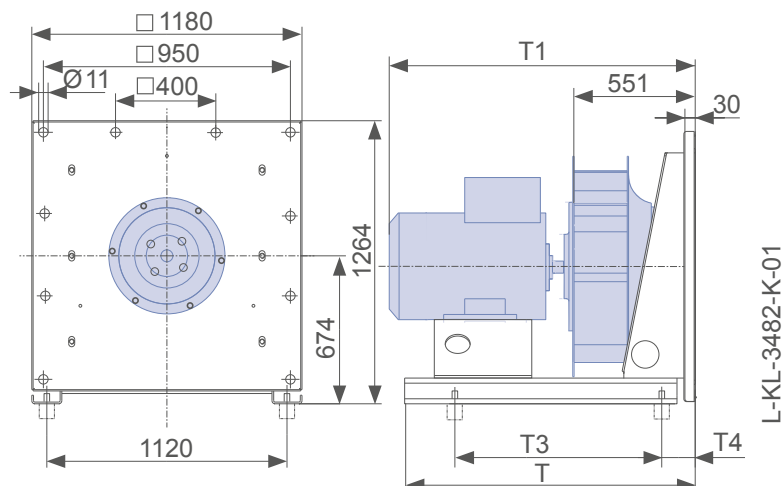
Nozzle coefficients

Standard k	789
With guard grille k _g	756

Characteristic curve



Dimensions mm



C-ZAmotpremium IE2										
Rated power P_N kW	Type	Article no.	Motor size	Motor efficiency η_{mot} %	Rated current I_N A	Rated speed n_N rpm	Maximum speed n_{max} rpm	Maximum frequency f_{max} Hz	Efficiency η_{statA} %	Efficiency grade N_{actual}^*
4.00	ER90C-8DN.I7.1R	130537/0101	160M	86.2	9.60	730	770	53	61.5	65.0
5.5	ER90C-8DN.I7.1R	130538/0101	160M	86.7	13.20	730	860	59	62.9	65.0
7.5	ER90C-6DN.I7.1R	130539/0101	160M/L	87.2	16.20	975	940	48	65.4	66.4
11.00	ER90C-6DN.K7.1R	130540/0101	160L/M	88.7	22.50	975	1070	55	66.6	66.5
15.00	ER90C-6DN.M7.1R	130541/0101	180L/M	88.7	31.00	975	1210	62	67.3	66.8
18.50	ER90C-6DN.N7.1R	130542/0101	200L	90.4	36.00	978	1290	66	67.8	67.1
22.00	ER90C-6DN.N7.1R	130543/0101	200L	90.9	42.50	978	1370	70	68.2	67.3
30.00	ER90C-4DN.N7.1R	130544/0101	200L	92.3	56.00	1470	1470	50	69.2	68.1

* ErP 2015 Target N=62 | expected limit for ErP 2020 N=64

P_N kW	Type	Weight kg	T mm	T1 mm	T3 mm	T4 mm	Flexible inlet connector	Guard grille	Vibration damper		Frequency inverters 3~
									Spring	Rubber	
4.00	ER90C-8DN.I7.1R	260.00	1160	1084	953	115	00403351	00411648	02006450	02001674	308265
5.5	ER90C-8DN.I7.1R	273.00	1160	1084	1005	115	00403351	00411648	02006450	02001674	308267
7.5	ER90C-6DN.I7.1R	289.00	1160	1128	953	115	00403351	00411648	02006451	02001674	308267
11.00	ER90C-6DN.K7.1R	296.00	1160	1128	1005	115	00403351	00411648	02006451	02000407	308323
15.00	ER90C-6DN.M7.1R	356.00	1320	1202	1059	115	00403351	00411648	02006451	02000407	308325
18.50	ER90C-6DN.N7.1R	408.00	1320	1255	1164	115	00403351	00411648	02006452	02000407	308327
22.00	ER90C-6DN.N7.1R	408.00	1320	1255	1164	115	00403351	00411648	02006452	02019767	308329
30.00	ER90C-4DN.N7.1R	422.00	1320	1255	1164	115	00403351	00411648	02006452	02019767	308331

C-ZAmotpremium IE3										
Rated power P_N kW	Type	Article no.	Motor size	Motor efficiency η_{mot} %	Rated current I_N A	Rated speed n_N rpm	Maximum speed n_{max} rpm	Maximum frequency f_{max} Hz	Efficiency η_{statA} %	Efficiency grade N_{actual}^*
4.00	ER90C-8DN.I7.1R	130537/0141	160M/L	84.8	10.30	730	770	53	63.7	67.3
5.5	ER90C-8DN.I7.1R	130538/0141	160M/L	86.2	14.00	730	860	59	64.7	66.9
7.5	ER90C-6DN.I7.1R	130539/0141	160M/L	89.1	16.00	980	940	48	66.8	67.9
11.00	ER90C-6DN.K7.1R	130540/0141	160L	90.3	23.00	975	1070	55	67.8	67.7
15.00	ER90C-6DN.M7.1R	130541/0141	180L/M	91.2	29.50	975	1210	62	68.4	67.9
18.50	ER90C-6DN.N7.1R	130542/0141	200L	91.7	37.00	975	1290	66	68.8	68.1
22.00	ER90C-6DN.N7.1R	130543/0141	200L	92.2	43.00	978	1370	70	69.2	68.3
30.00	ER90C-4DN.N7.1R	130544/0141	200L	93.6	54.00	1470	1470	50	70.2	69.1

* ErP 2015 Target N=62 | expected limit for ErP 2020 N=64

P_N kW	Type	Weight kg	T mm	T1 mm	T3 mm	T4 mm	Flexible inlet connector	Guard grille	Vibration damper		Frequency inverters 3~
									Spring	Rubber	
4.00	ER90C-8DN.I7.1R	259.00	1160	1080	840	115	00403351	00411648	02006450	02001674	308265
5.5	ER90C-8DN.I7.1R	273.00	1160	1080	893	115	00403351	00411648	02006450	02001674	308267
7.5	ER90C-6DN.I7.1R	280.00	1160	1080	900	115	00403351	00411648	02006451	02001674	308267
11.00	ER90C-6DN.K7.1R	302.00	1160	1140	953	115	00403351	00411648	02006451	02000407	308323
15.00	ER90C-6DN.M7.1R	371.00	1320	1144	1059	115	00403351	00411648	02006451	02000407	308325
18.50	ER90C-6DN.N7.1R	408.00	1320	1197	1164	115	00403351	00411648	02006452	02000407	308327
22.00	ER90C-6DN.N7.1R	423.00	1320	1222	1164	115	00403351	00411648	02006452	02019767	308329
30.00	ER90C-4DN.N7.1R	433.00	1320	1222	1164	115	00403351	00411648	02006452	02019767	308331

