

Plug fan Cpro - ZAmotpremium  
ER45C

Centrifugal fans main catalogue with IEC standard motor  
05/2022

# Plug fan Cpro

ER45Cpro

Motor ZAmotpremium IE3



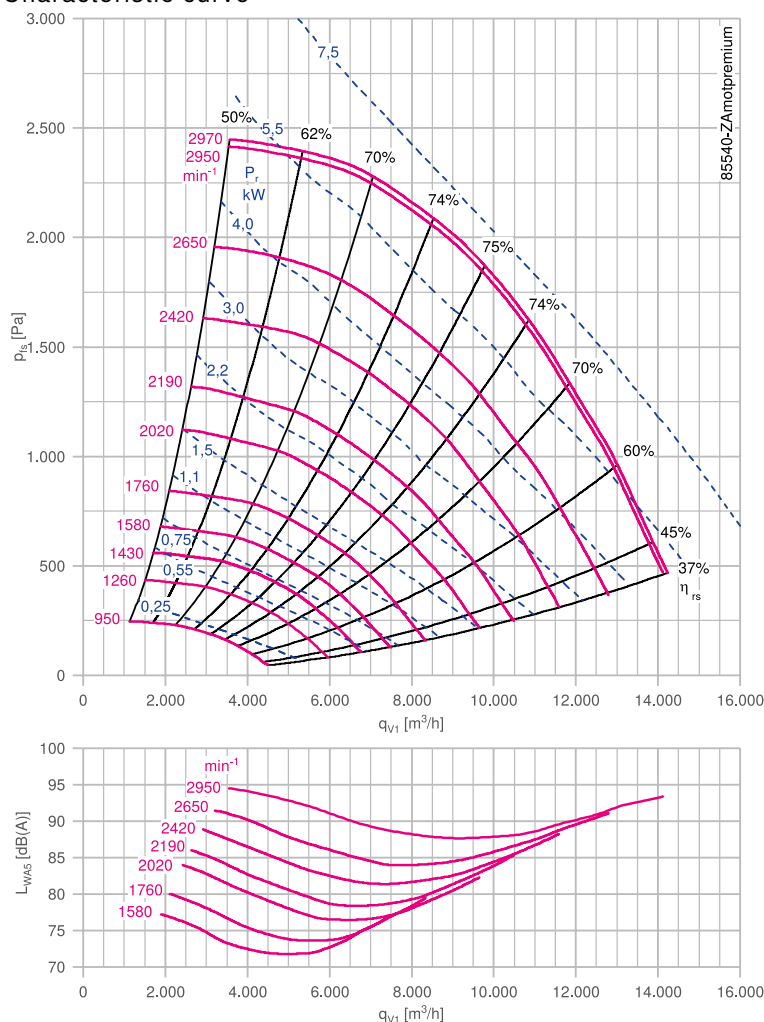
## Description

Plug fan with high performance centrifugal impeller  
Impeller made of ZAmid unpainted like RAL 5002 (ultramarine blue)  
Inlet nozzle with measuring device for air flow measurement  
Fitting position H (horizontal)  
Rated voltage  $U_N$ : 3~ 400 V  
Rated frequency  $f_N$ : 50 Hz  
Motor protection: PTC resistor  
Degree of protection: IP55  
Thermal class: THCL155  
Min. permitted medium temperature  $t_{R(min)}$ : -20 °C  
Max. permitted medium temperature  $t_{R(max)}$  at  $n_{max}$ : 40 °C  
Approvals: CE, UKCA  
Conformity: ErP 2015

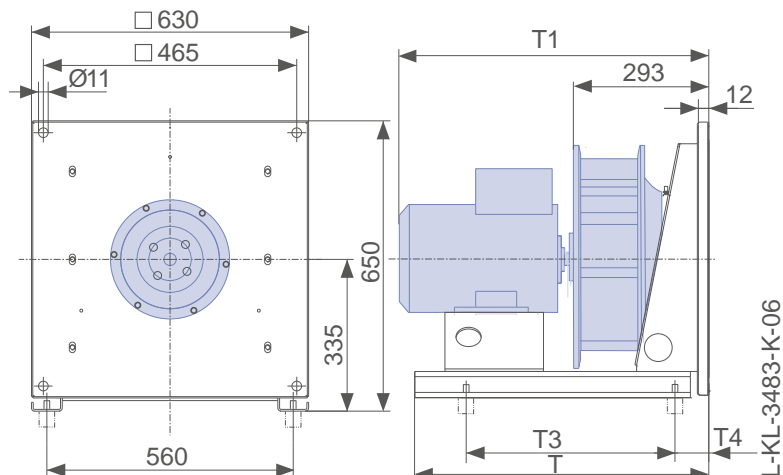
## Nozzle coefficients

Standard k	197
With guard grille $k_g$	189
With inlet guide grille $k_{Zaflow}$	193

Characteristic curve



Dimensions mm



Cpro-ZAmotpremium IE3										
Rated power $P_N$ kW	Type	Article no.	Motor size	Motor efficiency $\eta_{mot}$ %	Rated current $I_N$ A	Rated speed $n_N$ rpm	Maximum speed $n_{max}$ rpm	Maximum frequency $f_{max}$ Hz	Efficiency $\eta_{statA}$ %	Efficiency grade $N_{actual}^*$
1.10	<a href="#">ER45C-4DN.C7.CR</a>	<a href="#">130582/2141</a>	090S/L	84.1	2.40	1440	1580	55	64.6	74.1
1.50	<a href="#">ER45C-4DN.D7.CR</a>	<a href="#">130583/2141</a>	090L/S	85.3	3.20	1445	1760	61	65.5	73.6
2.20	<a href="#">ER45C-4DN.E7.CR</a>	<a href="#">130584/2141</a>	100L	86.7	4.40	1465	2020	69	66.6	72.9
3.00	<a href="#">ER45C-4DN.E7.CR</a>	<a href="#">130585/2141</a>	100L	87.7	5.90	1460	2190	75	67.3	72.6
4.00	<a href="#">ER45C-4DN.F7.CR</a>	<a href="#">130586/2141</a>	112M	88.6	7.90	1460	2420	83	68.0	72.0
5.50	<a href="#">ER45C-4DN.G7.CR</a>	<a href="#">130587/2141</a>	132S	89.6	10.50	1470	2650	90	68.8	71.6
7.50	<a href="#">ER45C-2DN.G7.CR</a>	<a href="#">130588/2141</a>	132S	90.1	13.10	2950	2950	50	69.2	70.5

\* ErP 2015 setpoint N=62 | expected setpoint for next ErP level N=64

$P_N$ kW	Type	Weight kg	T mm	T1 mm	T3 mm	T4 mm	Flexible connector	Guard grille	Vibration damper		Frequency inverters 3-	Inlet guide grille ZAflow
									Spring	Rubber		
1.10	<a href="#">ER45C-4DN.C7.CR</a>	44.00	570	618	368	115	00406515	00411574	02021197	00090144	308228	00415084
1.50	<a href="#">ER45C-4DN.D7.CR</a>	47.00	570	643	368	115	00406515	00411574	02021197	00090144	308230	00415084
2.20	<a href="#">ER45C-4DN.E7.CR</a>	59.00	570	656	420	115	00406515	00411574	02021197	00090144	308232	00415084
3.00	<a href="#">ER45C-4DN.E7.CR</a>	59.00	570	691	420	115	00406515	00411574	02021197	00090144	308234	00415084
4.00	<a href="#">ER45C-4DN.F7.CR</a>	63.00	720	675	473	115	00406515	00411574	02021198	02000124	308236	00415084
5.50	<a href="#">ER45C-4DN.G7.CR</a>	94.00	720	756	578	115	00406515	00411574	02021198	02000124	308265	00415084
7.50	<a href="#">ER45C-2DN.G7.CR</a>	87.00	720	756	578	115	00406515	00411574	02021198	02000124	308267	00415084