

Cpro-ECblue

for three phase alternating current, 200-240 V

RH50C-ZIK



Description

Motor technology: EC
Rated voltage U: **3~200-240 V***
Rated frequency f: **50/60 Hz***
Motor input power P: **3.60 kW***
Rated current I: **11.00-9.20 A***
Rated speed n: **1860 min⁻¹***
Thermal class: **THCL155***
Min. permitted ambient temperature t_{R1} : -20 °C
Max. permitted ambient temperature t_{R2} at n_{max} : 50 °C
Electrical connection: integrated Controller
Number of blades: 7
Balancing quality: G 2.5
Protection class: IP54
Motor protection: Integrated active temperature management
Impeller: ZAmid, uncoated, Ultramarine blue
Conformity: ErP 2015, CE

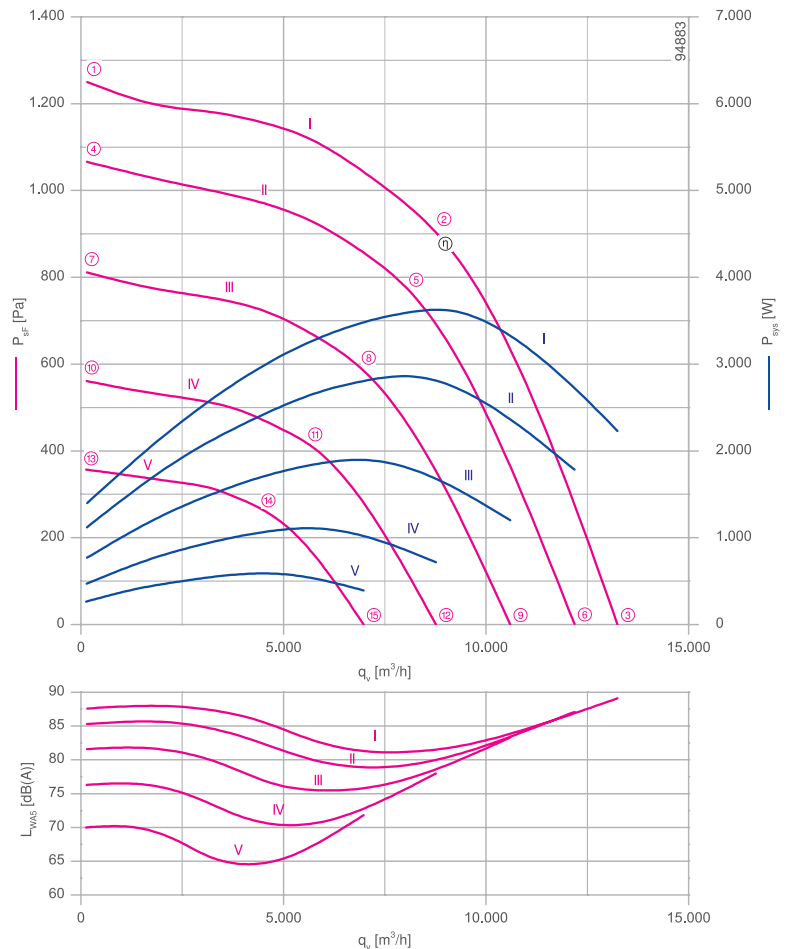
ErP-data

Efficiency η_{statA} : 65.2 %
Efficiency: $N_{actual} = 69.8 / N_{target} = 62^{**}$
EC controller integrated

*Rated data

**ErP 2015

Characteristic curve

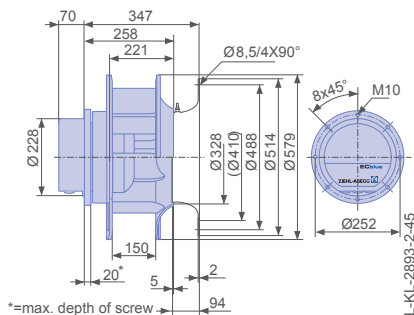


measured with inlet ring, without guard grille according to ISO 5801

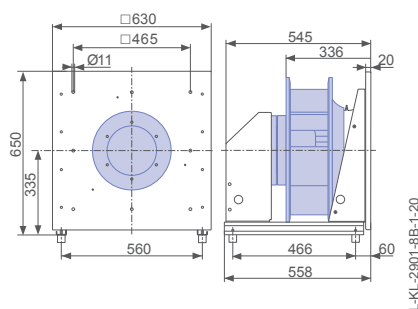
➤ Inlet ring	00401299	Page 450
➤ Connection diagram	1360-401	Page 548
➤ Rubber dampers	30x30 / 40	Page 454
➤ Spring vibration dampers	MSN 5	Page 454
➤ System components		Page 448

Dimensions [mm]

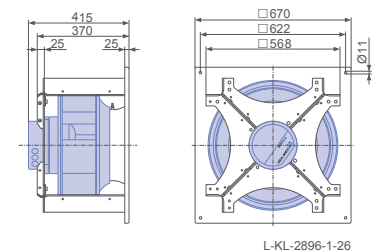
Free-running motor impeller RH
in installation position H/Vu/Vo



Plug fan ER in installation position H



Ventilation unit GR in installation position H

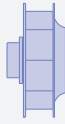
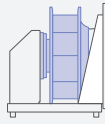
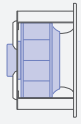
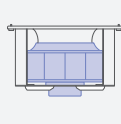
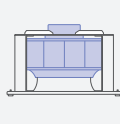


Performance data

Type	Characteristic curve	Speed	Operating point	Current	Motor input power	Suction side sound power level	Maximum ambient temperature
		n [min ⁻¹]		I [A]	P _{sys} [W]	L _{WAS} [dB]	
_50C-ZIK.GG.CR	I	1860	①	3.70	1400	88	50
		1860	②	9.60	3600	82	
		1860	③	5.80	2200	89	
	II	1720	④	3.00	1100	85	60
		1720	⑤	7.60	2900	79	
		1720	⑥	4.60	1800	87	
	III	1500	⑦	2.10	760	82	
		1500	⑧	5.00	1900	76	
		1500	⑨	3.20	1200	83	
	IV	1250	⑩	1.30	480	76	
		1250	⑪	2.90	1100	71	
		1250	⑫	1.95	720	78	
	V	1000	⑬	0.80	260	70	
		1000	⑭	1.60	580	65	
		1000	⑮	1.10	390	72	

Current values determined at 230V

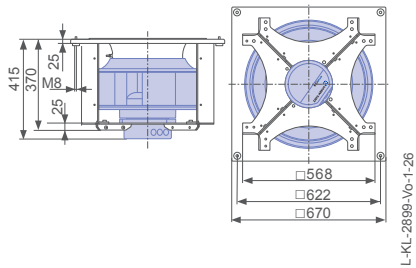
Fan ordering information

Design	RH*	ER**	GR**	GR**	GR**
Installation position	H/Vu/Vo	H	H	Vo	Vu
					
Type	RH50C-ZIK.GG.CR	ER50C-ZIK.GG.CR	GR50C-ZIK.GG.CR	GR50C-ZIK.GG.CR	GR50C-ZIK.GG.CR
Basic electronics					
Article no.	114617	114669/A01	114649/H01	114649/O01	114649/U01
Premium electronics					
Article no.	114618				
Weight [kg]	24.00	44.00	46.00	46.00	46.00
* Inlet ring not included					
** Inlet ring integrated					

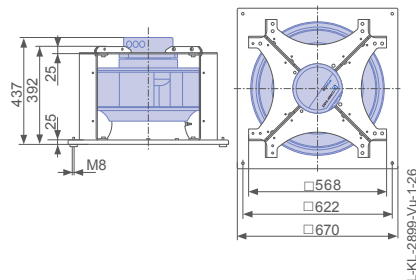
Control technology

Control module	Operating terminal	Expansion module
		
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Ventilation unit GR in installation position
Vo



Ventilation unit GR in installation position
Vu



Cpro-ECblue

for three phase alternating current, 380-480 V

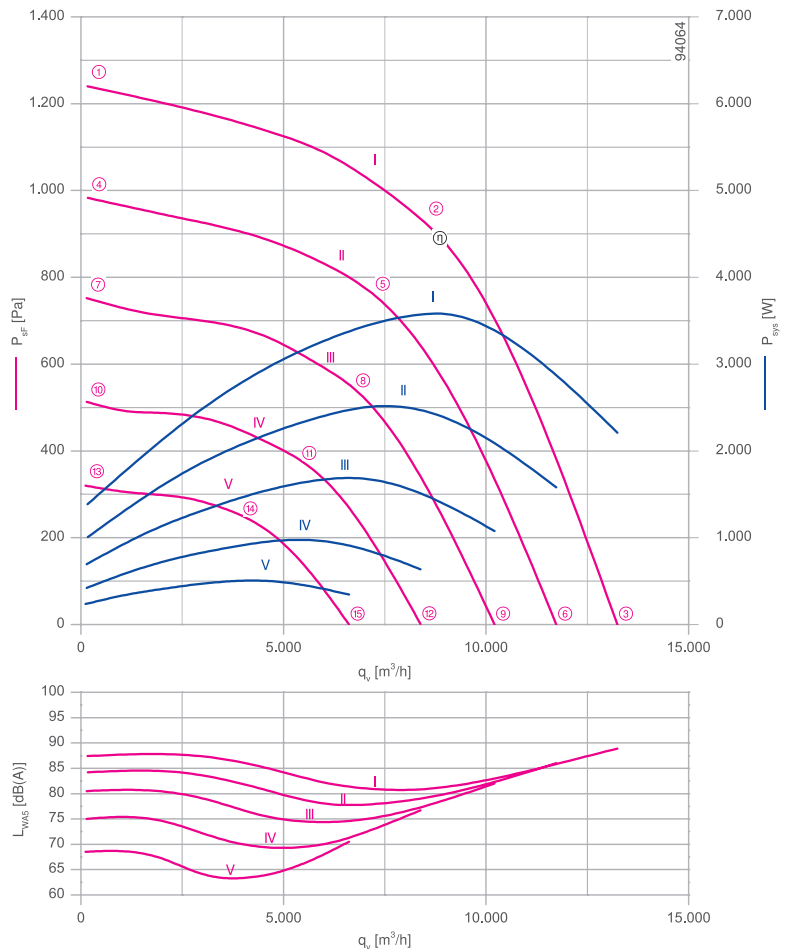
RH50C-ZIK



Description

Motor technology: EC
Rated voltage U: **3~380-480 V***
Rated frequency f: **50/60 Hz***
Motor input power P: **3.60 kW***
Rated current I: **5.80-4.60 A***
Rated speed n: **1860 min⁻¹***
Thermal class: **THCL155***
Min. permitted ambient temperature t_{R1} : -20 °C
Max. permitted ambient temperature t_{R2} at n_{max} : 50 °C
Electrical connection: integrated Controller
Number of blades : 7
Balancing quality: G 2.5
Protection class: IP54
Motor protection: Integrated active temperature management
Impeller : ZAmid, uncoated, Ultramarine blue
Conformity: ErP 2015, CE
ErP-data
Efficiency η_{statA} : 65.9 %
Efficiency: $N_{actual} = 70.6 / N_{target} = 62^{**}$
EC controller integrated
*Rated data
**ErP 2015

Characteristic curve

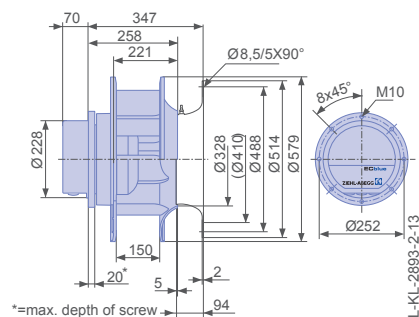


measured in inlet ring without guard grille according to ISO 5801

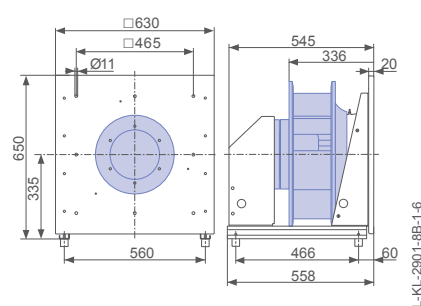
➤ Inlet ring	00401299	Page 450
➤ Connection diagram	1360-401	Page 548
➤ Rubber dampers	30x30 / 40	Page 454
➤ Spring vibration dampers	MSN 5	Page 454
➤ System components		Page 448

Dimensions [mm]

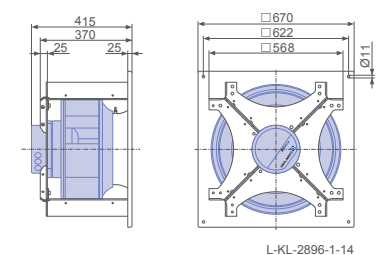
Free-running motor impeller RH
in installation position H/Vu/Vo



Plug fan ER in installation position H



Ventilation unit GR in installation position H

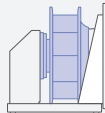
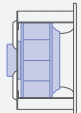
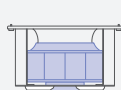
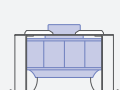


Performance data

Type	Characteristic curve	Speed n [min ⁻¹]	Operating point	Current I [A]	Motor input power P _{sys} [W]	Suction side sound power level L _{WAS} [dB]	Maximum ambient temperature t _R [°C]
_50C-ZIK.GG.CR	I	1860	①	2.20	1400	87	50
		1860	②	5.40	3600	81	
		1860	③	3.40	2200	89	
	II	1660	④	1.65	1000	84	60
		1660	⑤	3.90	2500	78	
		1660	⑥	2.50	1600	86	
	III	1450	⑦	1.20	700	81	
		1450	⑧	2.60	1700	75	
		1450	⑨	1.75	1100	82	
	IV	1200	⑩	0.82	420	75	
		1200	⑪	1.60	980	70	
		1200	⑫	1.10	640	77	
	V	950	⑬	0.56	240	69	
		950	⑭	0.94	500	63	
		950	⑮	0.72	340	71	

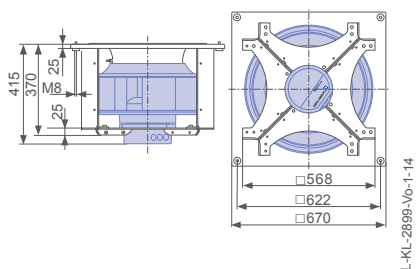
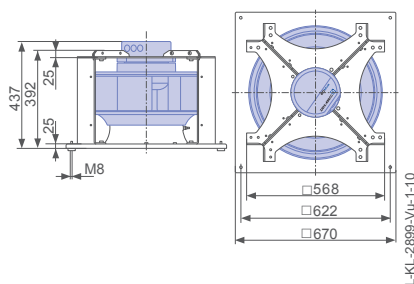
Current values determined at 400V

Fan ordering information

Design	RH*	ER**	GR**	GR**	GR**
Installation position	H/Vu/Vo	H	H	Vo	Vu
					
Type	RH50C-ZIK.GG.CR	ER50C-ZIK.GG.CR	GR50C-ZIK.GG.CR	GR50C-ZIK.GG.CR	GR50C-ZIK.GG.CR
Basic electronics					
Article no.	114619	114670/A01	114650/H01	114650/O01	114650/U01
Premium electronics					
Article no.	114620				
Weight [kg]	24.00	44.00	46.00	46.00	46.00
* Inlet ring not included					
** Inlet ring integrated					

Control technology

Control module	Operating terminal	Expansion module
		
➔ Page 464	➔ Page 476	➔ Page 473

Ventilation unit GR in installation position
VoVentilation unit GR in installation position
Vu

Cpro-ECblue

for three phase alternating current, 380-480 V

RH50C-ZIK



Description

Motor technology: EC
Rated voltage U: **3~380-480 V***
Rated frequency f: **50/60 Hz***
Motor input power P: **5,40 kW***
Rated current I: **8.60-6.80 A***
Rated speed n: **2140 min⁻¹***
Thermal class: **THCL155***
Min. permitted ambient temperature t_{R1} : -20 °C
Max. permitted ambient temperature t_{R2} at n_{max} : 40 °C
Electrical connection: integrated Controller
Number of blades : 7
Balancing quality: G 2.5
Protection class: IP54
Motor protection: Integrated active temperature management
Impeller : ZAmid, uncoated, Ultramarine blue
Conformity: ErP 2015, CE

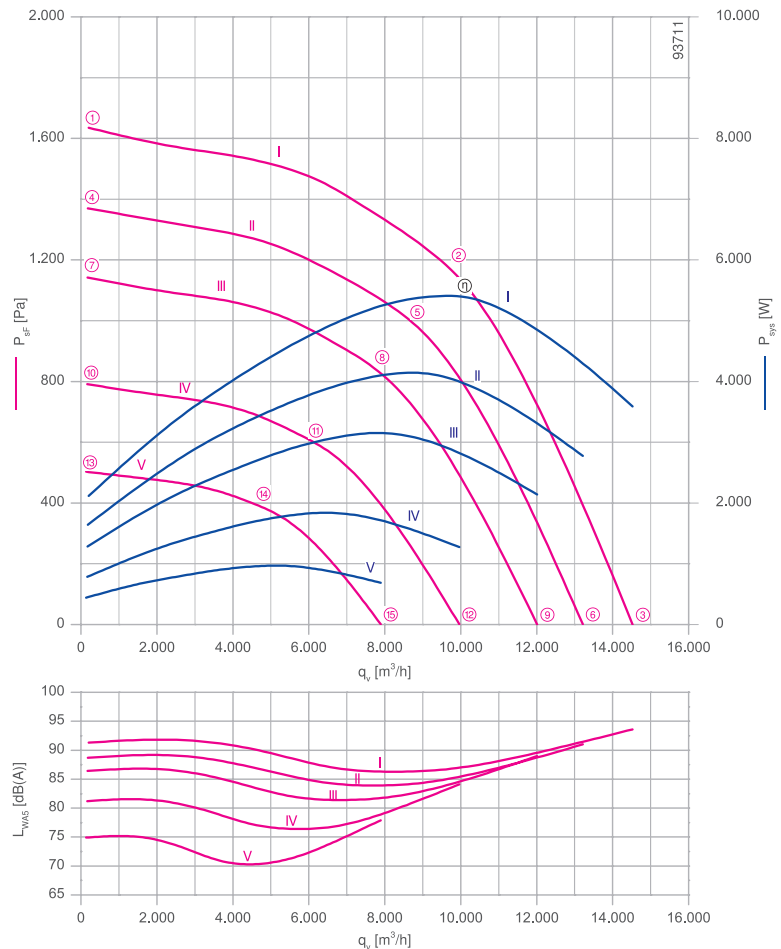
ErP-data

Efficiency η_{statA} : 62.1 %
Efficiency: $N_{actual} = 64.9 / N_{target} = 62^{**}$
EC controller integrated

*Rated data

**ErP 2015

Characteristic curve

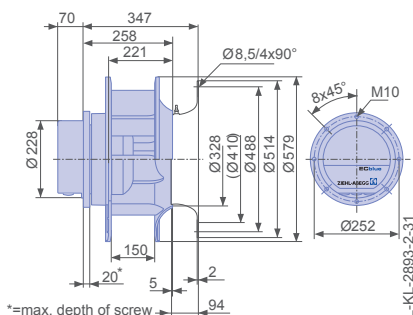


measured with inlet ring, without guard grille according to ISO 5801

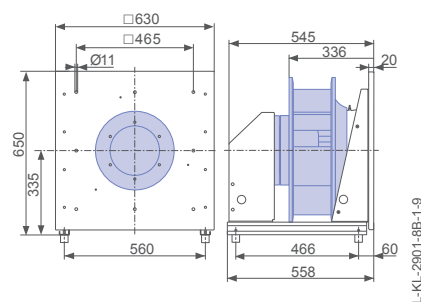
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Dimensions [mm]

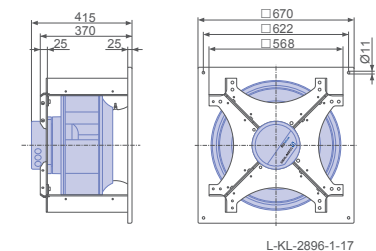
Free-running motor impeller RH
in installation position H/Vu/Vo



Plug fan ER in installation position H



Ventilation unit GR in installation position H

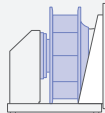
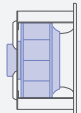
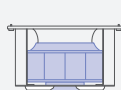
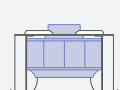


Performance data

Type	Characteristic curve	Speed n [min ⁻¹]	Operating point	Current I [A]	Motor input power P _{sys} [W]	Suction side sound power level L _{WAS} [dB]	Maximum ambient temperature t _R [°C]
_50C-ZIK.GL.CR	I	2140	①	3.30	2100	91	40
		2140	②	8.40	5400	87	
		2140	③	5.60	3600	94	
	II	1960	④	2.60	1650	89	60
		1960	⑤	6.40	4200	85	
		1960	⑥	4.20	2800	91	
	III	1790	⑦	2.10	1300	86	
		1790	⑧	4.80	3200	82	
		1790	⑨	3.30	2100	89	
	IV	1490	⑩	1.35	780	81	
		1490	⑪	2.90	1850	77	
		1490	⑫	2.00	1250	84	
	V	1190	⑬	0.90	440	75	
		1190	⑭	1.60	960	71	
		1190	⑮	1.20	680	78	

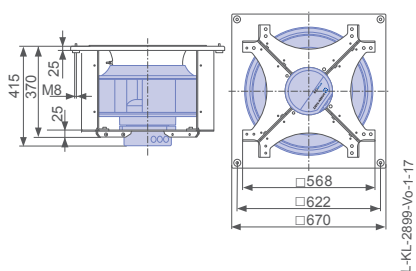
Current values determined at 400V

Fan ordering information

Design	RH*	ER**	GR**	GR**	GR**
Installation position	H/Vu/Vo	H	H	Vo	Vu
					
Type	RH50C-ZIK.GL.CR	ER50C-ZIK.GL.CR	GR50C-ZIK.GL.CR	GR50C-ZIK.GL.CR	GR50C-ZIK.GL.CR
Basic electronics					
Article no.	114709	114732/A01	114723/H01	114723/O01	114723/U01
Premium electronics					
Article no.	114710				
Weight [kg]	28.00	49.00	50.00	51.00	51.00
* Inlet ring not included					
** Inlet ring integrated					

Control technology

Control module	Operating terminal	Expansion module
		
➔ Page 464	➔ Page 476	➔ Page 473

Ventilation unit GR in installation position
VoVentilation unit GR in installation position
Vu