

Cpro-ECblue

for three phase alternating current, 200-240 V

RH50C-ZID



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_{R} : -20 °C
Max. permitted ambient temperature t_{R} at n_{max} : 45 °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

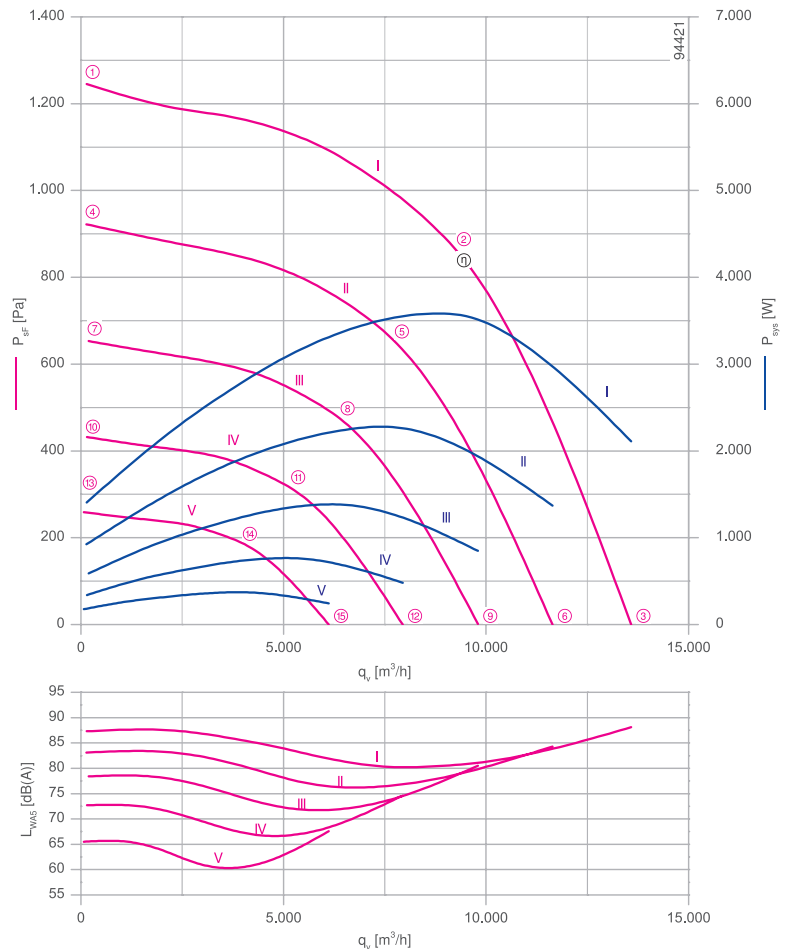
ErP-data

Efficiency η_{statA} : 66.8 %
Efficiency: $N_{actual} = 71.5 / N_{target} = 62^{**}$
EC controller integrated

*Rated data

**ErP 2015

Characteristic curve

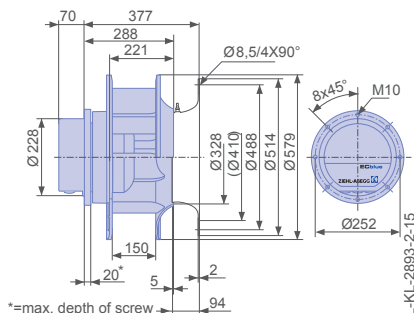


measured with inlet ring, without guard grille according to ISO 5801

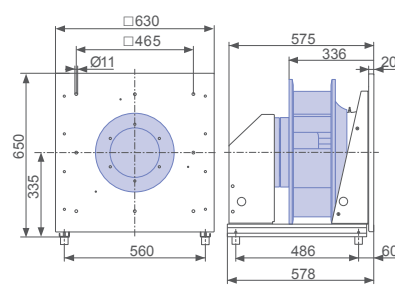
➤ Inlet ring	00401299	Page 450
➤ Connection diagram	1360-401	Page 548
➤ Rubber dampers	30x30 / 40	Page 454
➤ Spring vibration dampers	MSN 5	Page 454
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Dimensions [mm]

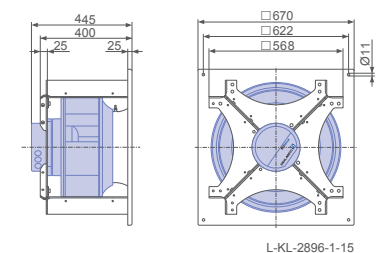
Free-running motor impeller RH
in installation position H/Vu/Vo



Plug fan ER in installation position H



Ventilation unit GR in installation position H

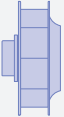
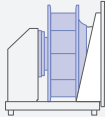
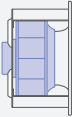
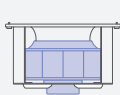
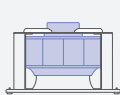


Performance data

Type	Characteristic curve	Speed	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-ZID.GG.CR	I	1860	①	3.80	1400	87	45
		1860	②	9.40	3600	80	
		1860	③	5.60	2100	88	
	II	1600	④	2.50	920	83	60
		1600	⑤	6.00	2300	77	
		1600	⑥	3.70	1350	84	
	III	1350	⑦	1.65	580	78	
		1350	⑧	3.70	1400	72	
		1350	⑨	2.30	840	81	
	IV	1100	⑩	1.00	340	73	
		1100	⑪	2.10	760	67	
		1100	⑫	1.40	480	75	
	V	850	⑬	0.62	180	66	
		850	⑭	1.10	370	61	
		850	⑮	0.78	240	68	

Current values determined at 230V

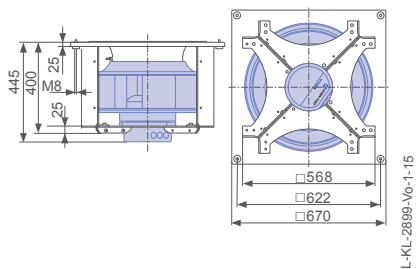
Fan ordering information

Design	RH*	ER**	GR**	GR**	GR**
Installation position	H/Vu/Vo	H	H	Vo	Vu
					
Type	RH50C-ZID.GG.CR	ER50C-ZID.GG.CR	GR50C-ZID.GG.CR	GR50C-ZID.GG.CR	GR50C-ZID.GG.CR
Basic electronics					
Article no.	114621	114671/A01	114651/H01	114651/O01	114651/U01
Premium electronics					
Article no.	114622				
Weight [kg]	24.00	45.00	47.00	47.00	47.00
* Inlet ring not included					
** Inlet ring integrated					

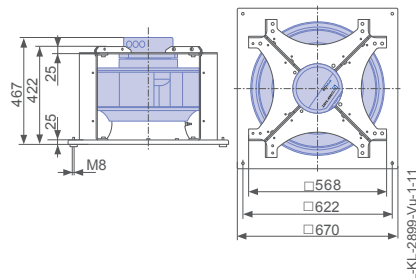
Control technology

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

Ventilation unit GR in installation position
Vo



Ventilation unit GR in installation position
Vu



Cpro-ECblue

for three phase alternating current, 380-480 V

RH50C-ZID



Description

Motor technology: EC
Rated voltage U: **3~380-480 V***
Rated frequency f: **50/60 Hz***
Motor input power P: **3.50 kW***
Rated current I: **5.60-4.40 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} : 55 °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

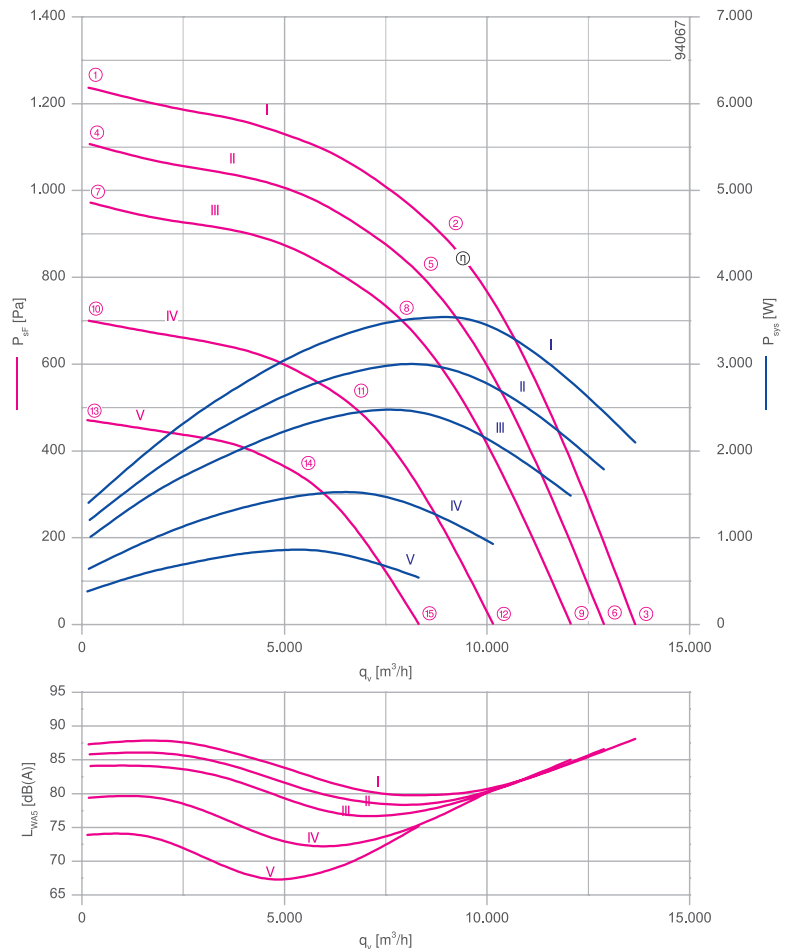
ErP-data

Efficiency η_{statA} : 67.2 %
Efficiency: $N_{actual} = 72.0 / N_{target} = 62^{**}$
EC controller integrated

*Rated data

**ErP 2015

Characteristic curve

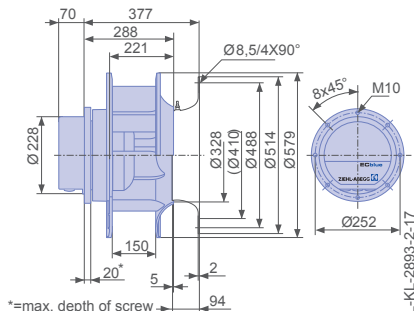


measured with inlet ring, without guard grille according to ISO 5801

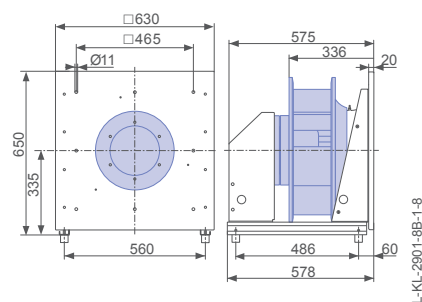
➤ Inlet ring	00401299	Page 450
➤ Connection diagram	1360-401	Page 548
➤ Rubber dampers	30x30 / 40	Page 454
➤ Spring vibration dampers	MSN 5	Page 454
➤ System components		Page 448

Dimensions [mm]

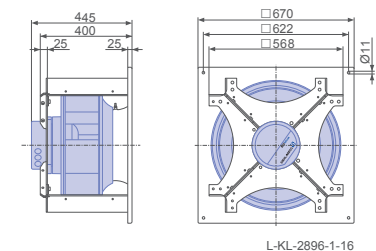
Free-running motor impeller RH
in installation position H/Vu/Vo



Plug fan ER in installation position H



Ventilation unit GR in installation position H

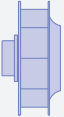
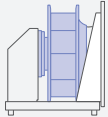
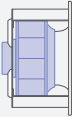
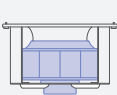
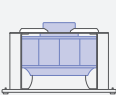


Performance data

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-ZID.GG.CR	I	1860	①	2.20	1400	87	55
		1860	②	5.40	3500	80	
		1860	③	3.20	2100	88	
	II	1760	④	1.95	1200	86	60
		1760	⑤	4.60	3000	78	
		1760	⑥	2.80	1800	87	
	III	1650	⑦	1.65	1000	84	
		1650	⑧	3.80	2500	77	
		1650	⑨	2.30	1500	85	
	IV	1400	⑩	1.15	640	79	
		1400	⑪	2.40	1500	73	
		1400	⑫	1.55	940	81	
	V	1150	⑬	0.80	380	74	
		1150	⑭	1.40	860	68	
		1150	⑮	1.00	540	75	

Current values determined at 400V

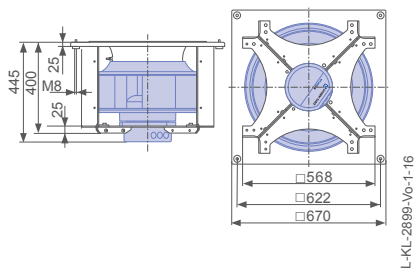
Fan ordering information

Design	RH*	ER**	GR**	GR**	GR**
Installation position	H/Vu/Vo	H	H	Vo	Vu
					
Type	RH50C-ZID.GG.CR	ER50C-ZID.GG.CR	GR50C-ZID.GG.CR	GR50C-ZID.GG.CR	GR50C-ZID.GG.CR
Basic electronics					
Article no.	114623	114672/A01	114652/H01	114652/O01	114652/U01
Premium electronics					
Article no.	114624				
Weight [kg]	24.00	45.00	47.00	47.00	47.00
* Inlet ring not included					
** Inlet ring integrated					

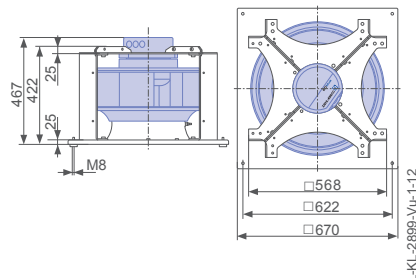
Control technology

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

Ventilation unit GR in installation position
Vo



Ventilation unit GR in installation position
Vu



Cpro-ECblue

for three phase alternating current, 380-480 V

RH50C-ZID



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: **2130 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

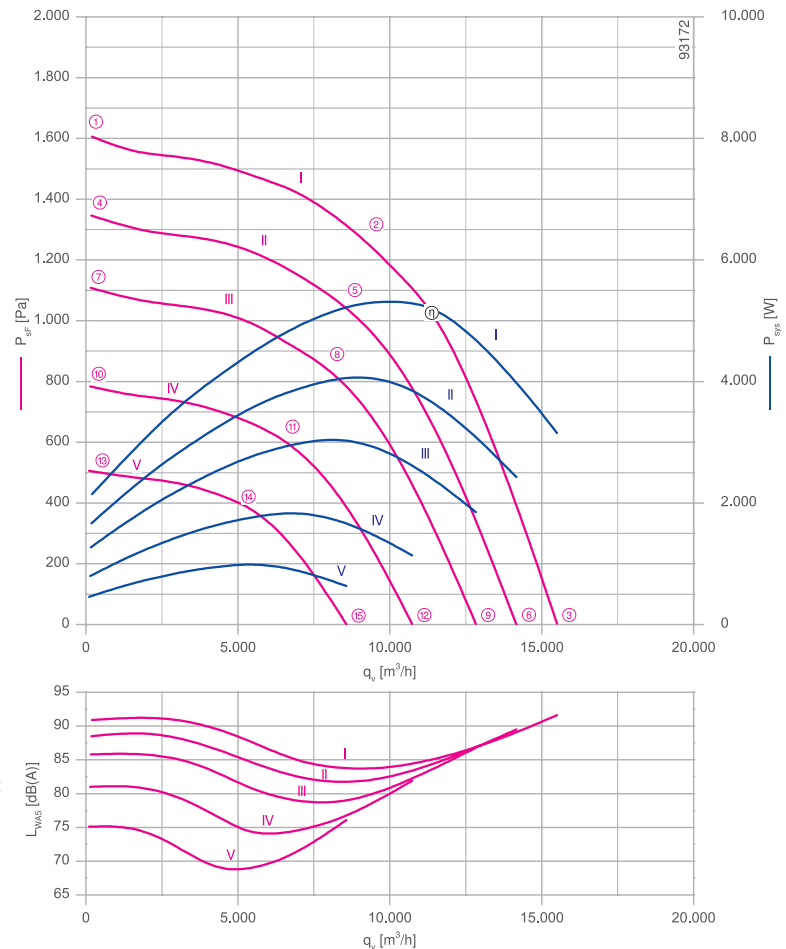
ErP-data

Efficiency η_{statA} : 66.5 %
Efficiency: $N_{actual} = 69.5 / N_{target} = 62^{**}$
EC controller integrated

*Rated data

**ErP 2015

Characteristic curve

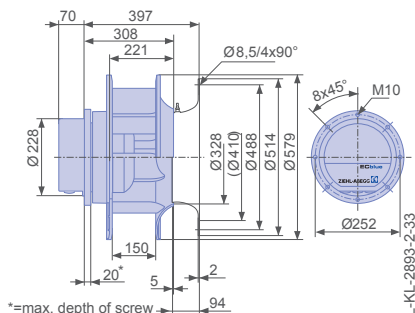


measured with inlet ring, without guard grille according to ISO 5801

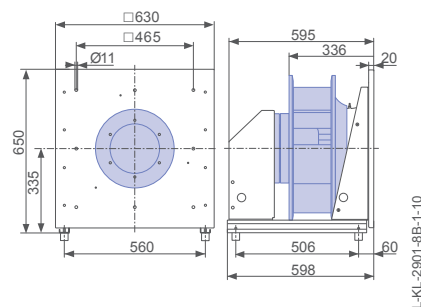
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Dimensions [mm]

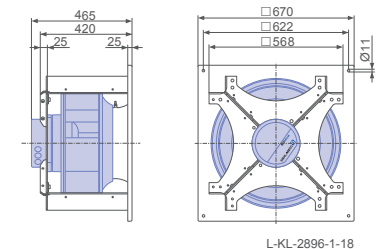
Free-running motor impeller RH
in installation position H/Vu/Vo



Plug fan ER in installation position H



Ventilation unit GR in installation position H

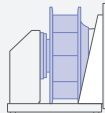
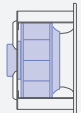
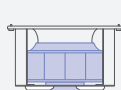
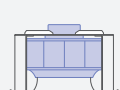


Performance data

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-ZID.GL.CR	I	2130	①	3.30	2100	91	40
		2130	②	8.20	5400	84	
		2130	③	4.80	3200	92	
	II	1950	④	2.60	1650	89	60
		1950	⑤	6.20	4000	82	
		1950	⑥	3.70	2400	90	
	III	1770	⑦	2.10	1250	86	
		1770	⑧	4.60	3000	79	
		1770	⑨	2.90	1850	87	
	IV	1490	⑩	1.35	800	81	
		1490	⑪	2.90	1850	74	
		1490	⑫	1.85	1150	82	
	V	1200	⑬	0.92	460	75	
		1200	⑭	1.65	980	69	
		1200	⑮	1.15	640	76	

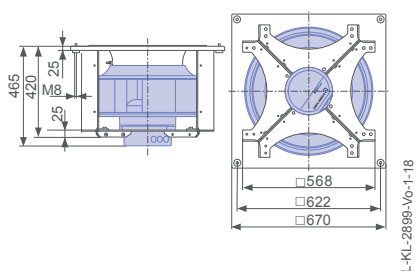
Current values determined at 400V

Fan ordering information

Design	RH*	ER**	GR**	GR**	GR**
Installation position	H/Vu/Vo	H	H	Vo	Vu
					
Type	RH50C-ZID.GL.CR	ER50C-ZID.GL.CR	GR50C-ZID.GL.CR	GR50C-ZID.GL.CR	GR50C-ZID.GL.CR
Basic electronics					
Article no.	114711	114733/A01	114724/H01	114724/O01	114724/U01
Premium electronics					
Article no.	114712				
Weight [kg]	29.00	49.00	51.00	52.00	52.00
* 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