

BLUE BOX model TETRIS SKY SLN HP 34,4
Monobloc luchtgekoelde ijswatermachine
Koelmiddel R32 GWP 675
SLN - SUPER LOW NOISE uitvoering
HP- WARMTEPOMP uitvoering

Koelvermogen : 314 kW

Verwarmingsvermogen : 209 kW

Technische gegevens : zie bijlage

Beschrijving :

- > Omkastings bestaande uit een draagchassis vervaardigd uit gegalvaniseerd plaatstaal afgewerkt met een weersbestendige epoxy coating: standaard kleur RAL 5017 en 7035
- > **4 scroll compressoren in tandem uitgerust met carterverwarming en overload beveiliging**
- > **1 TWIN platenwarmtewisselaar in roestvrijstaal AISI 316, geïsoleerd en met vorstbeveiliging tot een omgevingstemperatuur van -20°C**
- > **Luchtgekoelde Cu/Al condensorbatterij(en) voorzien van horizontaal gemonteerde axiaal ventilatoren**
- > **2 koelcircuits voorgevuld met koelmiddel, elk voorzien van:**
 - filterdroger
 - kijkglas
 - **elektronisch expansieventiel**
 - hoge- en lagedrukpressostaat
 - afsluitkraan op de vloeistofleiding
- > Voorgemonteerde Flow switch
- > Microprocessorsturing: verzekert o.a. de capaciteitsregeling van de machine op basis van de retourtemperatuur en de controle van een aantal werkingsparameters van de machine
- > Automatische compressorrotatie met urentellers
- > Geïntegreerd elektrisch schakelbord met hoofdschakelaar; bevat alle contactoren, elektrische beveiligingen en sturingscomponenten
- > Dixell controller met RS485 seriële interface met Modbus ondersteuning, Ethernet poort en TCP-IP ondersteuning voor besturing via BMS
- > Potentieelvrij contact voor algemeen alarm en compressoren, ventilatoren en pomp(en) (indien aanwezig)
- > CE-keurmerk
- > Fabricatie ISO 9001 gecertificeerd
- > 400V/3/50Hz
- > EUROVENT gecertificeerd
- > **In overeenstemming met richtlijn ECODESIGN SCOP**

Inbegrepen Opties :

- > **Vortsbeveiliging van de verdamper**
- > **Winterregeling: continue regeling van de ventilatorsnelheid voor een optimale controle van de hogedrukzijde bij buitentemperaturen van +15°C tot -20°C**
- > **Geavanceerde Dixell controller met Ethernet poort en TCP-IP ondersteuning**
- > **BACnet protocol via TCP-IP (Ethernet) voor besturing via BMS**
- > **Relais voor het aansturen van 1 externe pomp**
- > **SLN - Super Low Noise**

Netto prijs : 77.867,00 EUR/stuk excl BTW.

OPTIES :

- > **Cu/Al condensorbatterijen met anticorrosie coating - verplicht indien < 1km van de kust**
Netto meerprijs : 6.266,00 EUR / machine excl. BTW.
- > **Bescherming condensorbatterijen — prepainted aluminium vinnen voor gebruik in een corrosieve omgeving (enkel voor warmtepomp toestellen)**
Netto meerprijs : 1.241,00 EUR / machine excl. BTW.
- > **Hydrofiele coating op de condensorbatterij**
Netto meerprijs : 916,00 EUR / machine excl. BTW.
- > **Set trillingsdempers (rubber)**
Netto meerprijs : 427,00 EUR / machine excl. BTW.
- > **Set trillingsdempers (veren)**
Netto meerprijs : 1.909,00 EUR / machine excl. BTW.
- > **Toestel voorzien met een afrastering**
Netto meerprijs : 2.637,00 EUR / machine excl. BTW.
- > **Waterfilter**
Netto meerprijs : 418,00 EUR / machine excl. BTW.
- > **ST 1P - Hydraulische module bestaande uit één circulatiepomp en een expansievat**
Netto meerprijs : 2.589,00 EUR / machine excl. BTW.
- > **Vorstbeveiliging van de pomp(en) tot een omgevingstemperatuur van -20°C**
Netto meerprijs : 220,00 EUR / machine excl. BTW.
- > **Elektronische soft-starter**
Netto meerprijs : 3.651,00 EUR / machine excl. BTW.
- > **EC axiale ventilatoren met continue regeling van de ventilatorsnelheid**
Netto meerprijs : 5.465,00 EUR / machine excl. BTW.
- > **SV3 - 3weg modulerend signaal**
Netto meerprijs : 43,00 EUR / machine excl. BTW.
- > **Multilogic functie voor master toestel voor het aansturen tot 2 slave toestellen**

Netto meerprijs : 433,00 EUR / machine excl. BTW.
- > **vorstbeveiliging condensaat opvangbak**
Netto meerprijs : 591,00 EUR / machine excl. BTW.
- > **V3MC - modulating valve on hot loop**
Netto meerprijs : 1.667,00 EUR / machine excl. BTW.

Model: TETRIS Sky R7 HP SLN 34.4
Option: SLN-



COOLING

Performance data		
Cooling capacity (A2)	kW	314
Total input power (A2)	kW	105
Compressor input power	kW	98.9
Input current (E0)	A	189
Power factor (E0)	-	0.80
EER	W/W	2.99
SEER ^(B0)	W/W	4.49
$\eta_{s,c}^{(B0)}$	%	177
SEPR ^(B1)	W/W	4.98
Source		
Altitude	m	0.0
Dry bulb outdoor air	°C	35.0
Outdoor air Relative humidity	%	40.0
Air flow rate	m³/h	80591
Fan input power	kW	5.36
Fan input current	A	19.5
Fans available static pressure	Pa	0

User		
Fluid type		Water
Fouling fact.	m²K/kW	0.000
In/out fluid temperature	°C	16.0/9.0
Fluid flow rate	m³/h	38.58
Circuit pressure drops	kPa	18.6
Sound data (C2)		
Calculated sound power	dB(A)	86.0
Sound pressure ^(C0) [10.0 m]	dB(A)	53.8

SOUND DATA-OCTAVE	Hz	63	125	250	500	1000	2000	4000	8000
Unit global sound power	dB	92.2	87.5	83.0	79.9	81.7	79.8	73.4	70.1

HEATING⁶⁶

Performance data		
Heating capacity	kW	209
Total input power (A2)	kW	83.9
Compressor input power	kW	74.6
Input current (E0)	A	159
Power factor (E0)	-	0.76
COP	W/W	2.49
SCOP LT ^(B2) /MT ^(B3)	W/W	3.97/-
$\eta_{s,h} \text{ LT}^{(B2)}/\text{MT}^{(B3)}$	%	156/-
Source		
Altitude	m	0.0
Dry bulb outdoor air	°C	-7.0
Outdoor air Relative humidity	%	90.0
Air flow rate	m³/h	123362
Fan input power	kW	8.85
Fan input current	A	23.7
Fans available static pressure	Pa	0

User		
Fluid type		Water
Fouling fact.	m²K/kW	0.000
In/out fluid temperature	°C	35.0/40.0
Fluid flow rate	m³/h	36.52
Circuit pressure drops	kPa	18.3
Sound data (C2)		
Calculated sound power	dB(A)	86.0
Sound pressure ^(C0) [10.0 m]	dB(A)	53.8

SOUND DATA-OCTAVE	Hz	63	125	250	500	1000	2000	4000	8000
Unit global sound power	dB	94.1	91.0	87.3	82.6	84.4	80.7	70.6	63.9

The certified standard performances and the certified software tool version can be verified in www.eurovent-certification.com

DESIGN AND SIZING DATA

GENERAL DATA		
Compressor type		Scroll
Number of compressors		4
Number of circuits		2
Capacity steps		5
Minimum capacity step	%	20.9
Refrigerant type		R32
GWP		675
Total refrigerant charge (R1)	kg	52.0
CO2 equivalent charge	kg	35100
Total oil charge	kg	24.4

DIMENSIONS		
Length	mm	3838
Width	mm	2260
Height	mm	2476
Shipping weight	kg	2777
Net weight	kg	2777

FANS		
Fan type		Axial
Fan motor		AC
Number of fans		6
Maximum input power (P1)	kW	10.2
Maximum input current (E0)	A	22.7

ELECTRICAL DATA		
Nominal voltage supply	Ph/V/Hz	3/400/50
Maximum voltage supply	V	440
Minimum voltage supply	V	360
Maximum input power (P1)	kW	139
Maximum input current (E0)	A	225
Maximum peak current (E0)	A	560
Input power in stand-by mode	kW	0.570
Power factor (E0)		0.89

(A0) Technical data shown are not binding. The Company shall have the right to introduce at any time whatever modifications necessary to the improvement of the product.

(A1) Dimensional data shown are not binding.

(A2) According to standard: EN 14511-2022

(B0) Calculated according to Commission Regulation (EU) 2016/2281: Average/-/Fan coil/Variable outlet/Constant user flow rate/-

(B1) Calculated according to Commission Regulation (EU) 2016/2281 (data not certified within Eurovent Certification program): -/Constant user flow rate/-

(B2) Calculated according to Commission Regulation (EU) 2013/813: Average/Outdoor air/Low temperature/Variable outlet/Constant user flow rate/-

(C0) Noise pressure is calculated according to the following sound propagation method: Hemispherical ISO EN 3744 source

(C2) Calculated sound power cooling mode: unit operating at nominal operating capacity, without any accessories, with external air temperature of 35°C and user-side heat exchanger water inlet-outlet temperature of 12-7°C. Values obtained from measures taken according to standard ISO 3744 and to the Eurovent certification programme where applicable. Calculated sound power is the only binding value.

Calculated sound power heating mode: unit operating at nominal operating capacity, without any accessories, with external air temperature of 7°C and user-side heat exchanger water inlet-outlet temperature of 40-45°C. Values obtained from measures taken according to standard ISO 3744 and to the Eurovent certification programme where applicable. Calculated sound power is the only binding value.

The acoustic data relates to the standard conditions described above, in referable and reproducible operating modes. Acoustic data for water cooled units are NOT Eurovent Certified data.

All data except "Calculated sound power" are given for the mere purpose of example and can not be used for predictive purposes or for the verification of enforced limits.

With specific reference to the acoustic emissions, the Manufacturer commits to their conformity limited to the declared "Calculated sound power" value.

Any liability of the Manufacturer is excluded concerning the impact of such emissions with reference to the location of the plant and to other conditions related to the installation of the unit.

The environment and the installation's characteristics, besides the operating modes, may alter the acoustic emissions.

The overall acoustic evaluation, with regard to site conditions, remains the responsibility of the installer.

Sound Pressure is obtained from the sound power level, related to a distance indicated between brackets [] from the unit in free field with directivity factor Q=2.

None of the sound pressure values are binding.

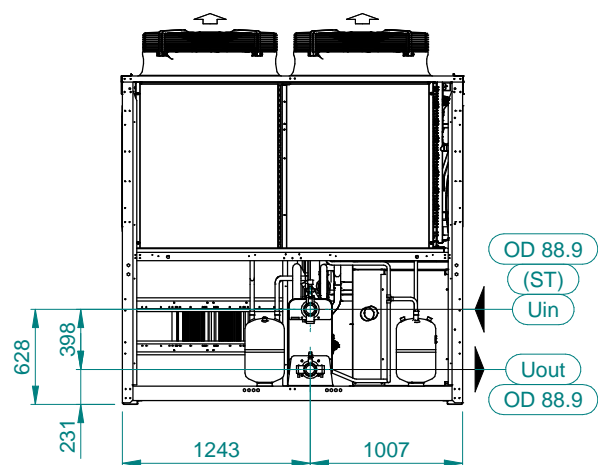
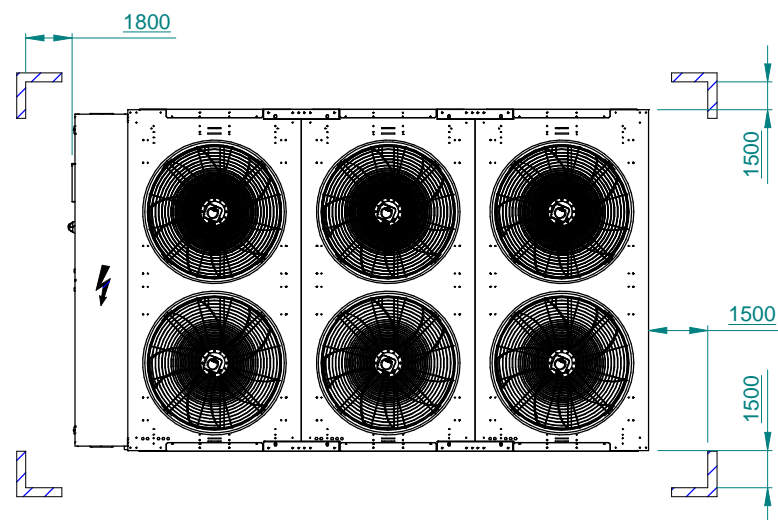
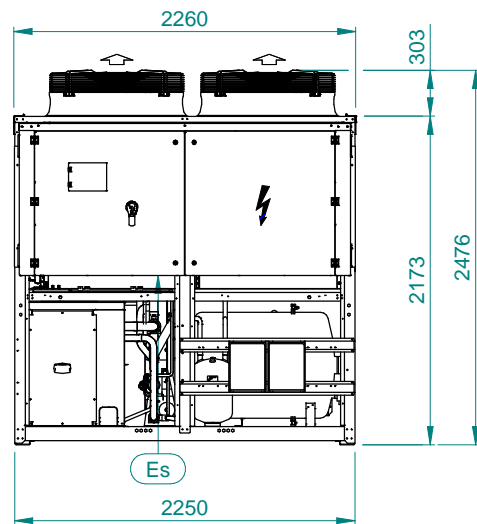
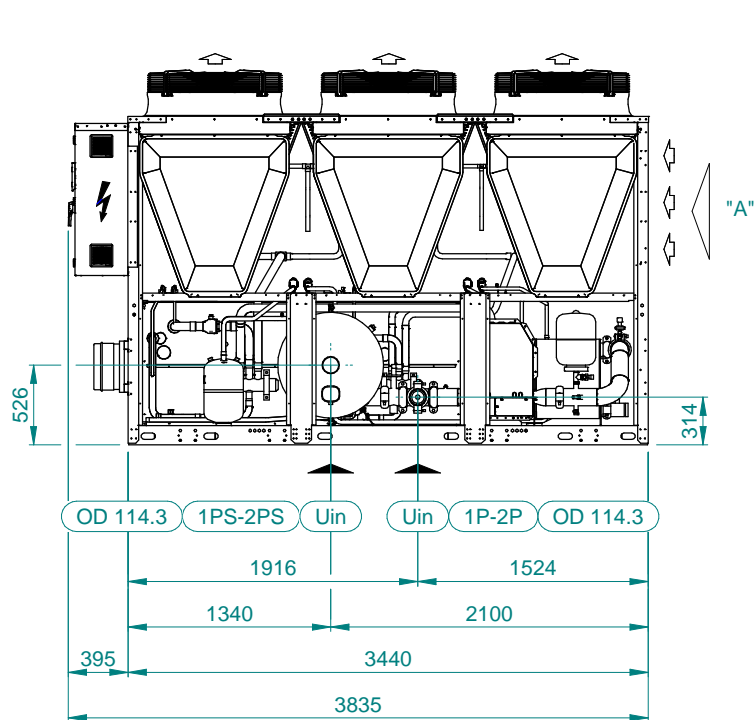
(R1) The indicated refrigerant charge is calculated. The refrigerant charge can vary according to different versions/accessories and product updates.

(P1) Mains power supply to allow unit operation. Sum of components' full power absorption.

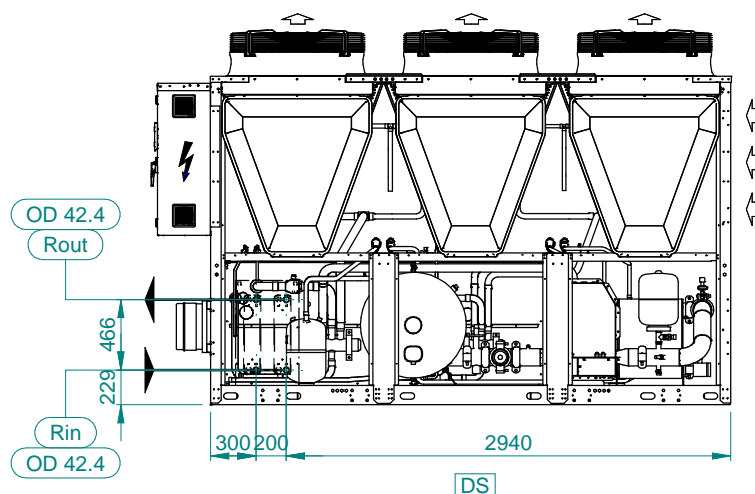
(E0) Electrical data may change without notice. It is therefore necessary to always refer to the electrical diagram.

For units with Pdesign ≤ 70 kW, only LT SCOP Data are certified within Eurovent LCP-HP program. For units with Pdesign >70 kW no SCOP data certified.

The certified standard performances and the certified software tool version can be verified in www.eurovent-certification.com



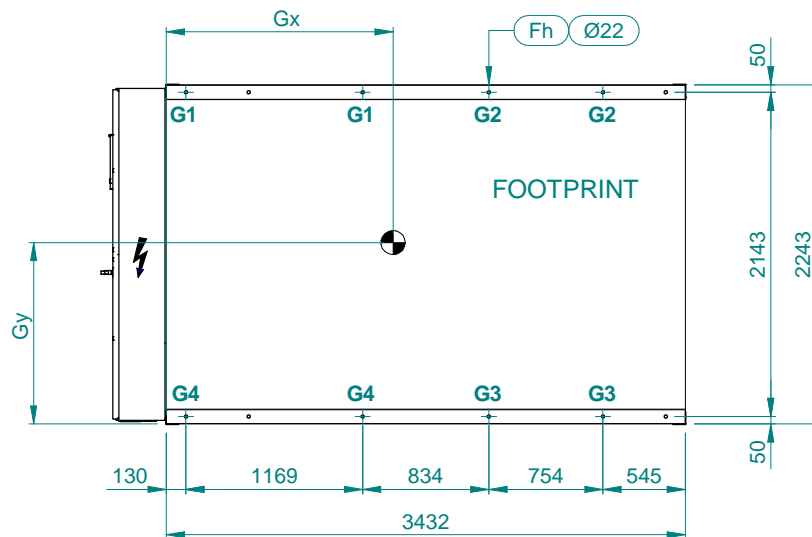
VIEW FROM "A"



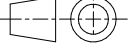

SAP CODE OF OPTIONS

THE DIMENSIONAL DRAWINGS TAKE ACCOUNT CONFIGURATION WITH ALSO REDUCED PUMPS

Rev.	Date	Draftman	Checked by	Revision description			
-	-	-	-	-			
-	-	-	-	-			
Machining tolerances: ISO 2768 - m							
Denomination - Dimensional Drawing TETRIS SKY R7 HP/HP SLN 34.4 -				Code /	Drawing DDIM001154	Rev. A	
		Scale 1:50	Date 20/04/2021	Draftsman Fedrigo G.	Checked by Benassi G.	Sheet N. <u>1</u> di <u>2</u>	
Replace draw. /		Replaced by draw. /			Weight [kg] /		
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MODEL	WEIGHT(kg)	OPERATING WEIGHT (kg)	G1 (kg)	G2 (kg)	G3 (kg)	G4 (kg)	Gx	Gy
34.4 HP_DS	2739	2780	471	324	242	353	1445	1276
34.4 HP_1P-2P_DS	2959	3020	450	372	311	377	1526	1216
34.4 HP_1PS-2PS_DS	3029	3390	487	384	363	461	1506	1151
34.4 HP_DS_LN-SLN	2891	2932	516	342	242	366	1430	1304
34.4 HP_1P-2P_DS_LN-SLN	3109	3170	493	391	310	391	1508	1246
34.4 HP_1PS-2PS_DS_LN-SLN	3181	3542	530	403	362	476	1490	1180

Rev.	Date	Draftman	Checked by	Revision description
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
Machining tolerances: ISO 2768 - m				
Denomination - Dimensional Drawing TETRIS SKY R7 HP/HP SLN 34.4 -				Code /
				Drawing DDIM001154
				Rev. A
	Scale 1:50	Date 20/04/2021	Draftsman Fedrigo G.	Checked by Benassi G.
Replace draw. /		Replaced by draw. /		Sheet N. <u>2</u> di <u>2</u>
				Weight [kg] /
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