



Saunier Duval
Siempre a tu lado

Nueva generación de Sistemas Genia

El motor del cambio hacia un mundo
más sostenible y eficiente



Bombas de Calor Saunier Duval Genia Air Max:
Genia Air Max 4

Documentación para acceder a las subvenciones de Inega:

- Hoja de características técnicas
- Etiqueta ErP
- Declaración de conformidad CE
- Certificado de rendimiento Keymark

Descubre más en saunierduval.es/sistemas-genia

Datos técnicos

Genia Air Max

Características		Ud	Genia Air Max 4	Genia Air Max 6	Genia Air Max 8	Genia Air Max 12	Genia Air Max 12T	Genia Air Max 15	Genia Air Max 15T
Alimentación eléctrica UE			230V/50Hz				400V/50Hz	230V/50Hz	400V/50Hz
Eficiencia Energética Calef. 35 °C/55 °C (A+++ - D)			A+++ / A++						
ηs Calefacción 35 °C		%	180	186	187	200		187	186
PCA (Potencial Calentamiento Atmosférico)	EN 517/2014		3						
CO2, equivalente	Por máquina	t	0,0018	0,0027		0,0039			
Rango de trabajo (mín - máx)	Calefacción	°C	-25 +43						
	ACS		-20 +43						
	Refrigeración		+15 +46						
Potencia Calefacción (mín - máx) PERMANENTE	A7/W35	kW	2,2-5,5	3,1-7,8	2,9-10,1	5,5-14,0		5,5-18,1	
	A7/W45		2,0-5,5	2,7-7,5	2,5-9,6	5,4-13,5		5,5-17,4	
	A7/W55		1,8-5,3	2,2-7,5	2,3-9,4	4,8-13,1		4,8-17,1	
COP ¹	A7W35		4,80	4,79		5,38			
	A7/W45		3,56	3,55		4,10			
	A7/W55		2,80	2,93		3,11			
Potencia Refrigeración (mín - máx) PERMANENTE	A35/W7	kW	1,8-5,0	2,5-6,3	2,5-7,7	4,4-10,0		4,4-12,8	
	A35/W18		2,4-5,6	3,6-7,1	3,6-9,6	6,0-13,4		6,0-17,3	
EER ¹	A35/W7		3,37	3,46		3,52			
	A35/W18		4,29	4,21		4,58			
Temperatura máxima sin resistencia eléctrica de apoyo	Calefacción	°C	75						
	ACS		70						
Presión sonora Ud. Exterior a 3m, direct.=2 / A7W35	modo normal	dB(A)	36	37		40		43	
	modo noche		28		33				
Rendimiento en ACS ²									
Eficiencia Energética ACS ³	Clima cálido		A+						
ηwh ACS		%	190			193			
COP ACS EN 16147 (A14)			4,41			4,43			
Perfil de carga			L	XL					
Eficiencia Energética ACS ³	Clima medio		A+						
ηwh ACS		%	171			163			
COP ACS EN 16147 (A7)			3,99			3,76			
Perfil de carga			L	XL					
Eficiencia Energética ACS ³	Clima frío		A+						
ηwh ACS		%	167			149			
COP ACS EN 16147 (A2)			3,77			3,41			
Perfil de carga			L	XL					

Consultar accesorios a partir de la página 38



Haz click o escanea el código QR para ver la guía rápida de instalación, con vídeos y otros recursos disponibles

Características		Ud	Genia Air Max 4	Genia Air Max 6	Genia Air Max 8	Genia Air Max 12	Genia Air Max 12T	Genia Air Max 15	Genia Air Max 15T
Rendimiento en calefacción									
Eficiencia estacional Calefacción etaS	Clima cálido W35	%	220	229	228	256		245	
	Clima medio W35		180	186	187	200		187	
	Clima frío W35		152	162	159	168		168	
Calefacción SCOP EN 14825	Clima cálido W35		5,57	5,81	5,78	6,48		6,19	
	Clima medio W35		4,56	4,71	4,75	5,07		4,74	
	Clima frío W35		3,88	4,13	4,05	4,27		4,28	
Unidad Exterior			HA 4-6 O B3 230V	HA 6-6 O B3 230V	HA 8-6 O B3 230V	HA 12-6 O B3 230V	HA 12-6 O B3 400V	HA 15-6 O B3 230V	HA 15-6 O B3 400V
Peso neto		kg	114	128		194	210	194	210
Refrigerante			R290						
Carga de refrigerante		kg	0,6	0,9		1,3			
Dimensiones sin embalaje	Alt/Ancho/Prof	mm	765/1.100/450		965/1.100/450		1.565/1.100/450		
Caudal bomba de calefacción		l/h	780	1050	1300	2065		2500	
Presión disponible		kPa	58	50	40	55		38	
Caudal mínimo		l/h	400	540		995			
Caudal máximo de ventilación		m³/h	2300	3000		6000			
Volumen mínimo de agua		l	15	20		45			
Conexiones hidráulicas		“	G 1 1/4						
Corriente máxima		A	14,3	15,0		23,3	15,0	23,3	15,0
Interruptor protección recomendado	Curva C	A	16			25	16A trif. 3P+N	25	16A trif. 3P+N
Potencia sonora EN 12102	A7W35	dB(A)	51	50	58			61	
	Modo silencioso		46			51			
	ErP A7/W55		52	57		60		61	
Unidad interior - torre hidráulica			FW 200-6						
Alimentación eléctrica			230V / 50 Hz						
Dimensiones sin embalaje	Alt/Ancho/Prof	mm	1.880/595/693						
Peso neto		kg	143						
Volumen equivalente agua a 40 °C	Acumul. 70 °C entrada 10 °C	l	370						
Volumen acumulación		l	185						
Tiempo de calentamiento a Tª de ACS según DIN EN 16147	EN 16147	min	192	125	<125	80	80	<80	<80
Máx. presión circuito calef.		bar	3						
Potencia sonora EN 12102	A7W35	dB(A)	<30						
Conexiones hidráulicas	Bomba de calor	“	G 1 1/4						
	Circuito calefacción		G 1						
Unidad interior - módulo hidráulico			HE 9-6 WB						
Alimentación eléctrica			230-400V / 50 Hz						
Dimensiones sin embalaje	Alt/Ancho/Prof	mm	720/440/350						
Peso neto		kg	20						
Máx. presión circuito calef.		bar	3						
Potencia sonora EN 12102	A7W35	dB(A)	<29						
Conexiones hidráulicas	Bomba de calor	“	G 1 1/4						
	Circuito calefacción		G 1						



ENERG
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Saunier Duval

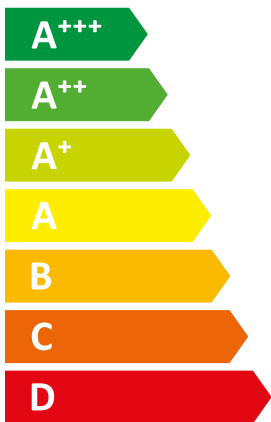


Brand Group || HA 4-6 O 230V B3



55°C

35°C



A++

A+++



- dB



52 dB

■ 3
■ 4
■ 3
kW

■ 4
■ 4
■ 3
kW



2019

811/2013

0020292209_00

Declaración de conformidad CE

EC declaration of conformity



Fabricante
Manufacturer

SDECCI SAS
17 rue de la Petite Baratte
44300 Nantes
France

Denominación del producto
Product description

Bomba de calor de aire-agua
air/water heat pump

Denominación de tipo
Type designation

HA 3-6 O 230V
HA 4-6 O 230V B3
HA 5-6 O 230V
HA 5-6 O 230V B3
HA 6-6 O 230V
HA 6-6 O 230V B3
HA 7-6 O 230V
HA 8-6 O 230V B3

Declaración de conformidad CE

EC declaration of conformity



Saunier Duval

Los productos especificados cumplen las disposiciones de las siguientes directivas y normas en sus versiones actualmente vigentes en el momento de la expedición. Esta declaración de conformidad se publica bajo la exclusiva responsabilidad del fabricante.

The designated products comply with the regulations of the following directives and standards in their currently applicable versions at the time they are issued. This declaration of conformity is issued under the sole responsibility of the manufacturer.

Directiva sobre baja tensión 2014/35/UE
Low voltage directive 2014/35/EU

EN 60335-1:2012/A13:2017
EN 60335-2-40 A13+AC2013
EN 62233:2008 + Corr.:2008

Directiva CEM 2014/30/UE
EMC directive 2014/30/EU

EN 55014-1:2017
EN 55014-2:2015
EN 61000-3-2:2014
EN 61000-3-3:2013

Directiva sobre diseño ecológico 2009/125/CE
Ecodesign directive 2009/125/EC

VO (EU) No. 813/2013

Directiva RoHS 2011/65/UE
RoHS directive 2011/65/EU

Normas aplicadas
Additional applied standards

EN 14511:2018
EN 14825:2016
EN 12102-1 1:2017

Toda modificación arbitraria y/o utilización incorrecta de los productos suministrados anula la validez de la presente declaración de conformidad.

Any unauthorised changes to the supplied products and/or any improper use invalidates this declaration of conformity.

Remscheid, 07.05.2020

(población, fecha)
(Place, date)

i.V. Dr. R. Lang
Group R&D Manager Heat Pumps

i. V. L. Christiaans
Head of International Certification and
Approval

This information was generated by the HP KEYMARK database on 17 Dec 2020

Summary of	HA 5-6 O 230V	Reg. No.	40051132
Certificate Holder			
Name	Saunier Duval Brand Group		
Address		Zip	
City		Country	Germany
Certification Body	VDE Prüf- und Zertifizierungsinstitut GmbH		
Name of testing laboratory	VDE Prüf- und Zertifizierungsinstitut GmbH		
Subtype title	HA 5-6 O 230V		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R290		
Mass Of Refrigerant	0.6 kg		
Certification Date	11.05.2020		
Testing basis	DIN EN 14511-1:2019-07; EN 14511-1:2018 DIN EN 14511-2:2019-07; EN 14511-2:2018 DIN EN 14511-3:2019-07; EN 14511-3:2018 DIN EN 14511-4:2019-07; EN 14511-4:2018 DIN EN 14825:2016-10; EN 14825:2016 DIN EN 12102-1:2018-02; EN 12102-1:2017		

Model: HA 5-6 O 230V

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	3.36 kW	4.83 kW
El input	0.69 kW	1.71 kW
COP	4.80	2.80
Indoor water flow rate	0.58 m ³ /h	0.53 m ³ /h

EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	51 dB(A)	54 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	183 %	130 %
Prated	4.81 kW	4.88 kW
SCOP	4.66	3.33
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.26 kW	4.32 kW
COP Tj = -7°C	2.78	2.11
Cdh	0.99	0.99
Pdh Tj = +2°C	2.70 kW	2.46 kW
COP Tj = +2°C	4.62	3.19
Cdh	0.97	0.98
Pdh Tj = +7°C	2.29 kW	2.12 kW
COP Tj = +7°C	6.41	4.40
Cdh	0.96	0.97
Pdh Tj = 12°C	2.61 kW	2.52 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

COP Tj = 12°C	7.61	6.03
Cdh	0.96	0.96
Pdh Tj = Tbiv	4.26 kW	4.32 kW
COP Tj = Tbiv	2.78	2.11
Pdh Tj = TOL	4.13 kW	4.63 kW
COP Tj = TOL	2.43	1.86
WTOL	70 °C	70 °C
Poff	8 W	8 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2135 kWh	3031 kWh

Warmer Climate

EN 14825		
	Low temperature	Medium temperature
η_s	233 %	157 %
Prated	4.96 kW	5.07 kW
SCOP	5.89	3.99

This information was generated by the HP KEYMARK database on 17 Dec 2020

Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.96 kW	5.07 kW
COP Tj = +2°C	3.35	2.30
Cdh	0.99	0.99
Pdh Tj = +7°C	3.42 kW	3.08 kW
COP Tj = +7°C	5.45	3.43
Cdh	0.97	0.98
Pdh Tj = 12°C	2.59 kW	2.42 kW
COP Tj = 12°C	7.25	5.17
Cdh	0.96	0.97
Pdh Tj = Tbiv	4.96 kW	5.07 kW
COP Tj = Tbiv	3.35	2.30
Pdh Tj = TOL	4.96 kW	5.07 kW
COP Tj = TOL	3.35	2.30
WTOL	70 °C	70 °C
Poff	8 W	8 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity

This information was generated by the HP KEYMARK database on 17 Dec 2020

Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1125 kWh	1697 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	51 dB(A)	54 dB(A)

Colder Climate

EN 14825		
	Low temperature	Medium temperature
η_s	158 %	116 %
Prated	5.01 kW	4.76 kW
SCOP	4.02	2.98
T _{biv}	-15 °C	-15 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	3.22 kW	2.89 kW
COP T _j = -7°C	3.36	2.45
C _{dh}	0.98	0.99
P _{dh} T _j = +2°C	1.92 kW	1.85 kW
COP T _j = +2°C	5.04	3.65
C _{dh}	0.96	0.97

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = +7°C	2.33 kW	2.21 kW
COP Tj = +7°C	6.82	5.01
Cdh	0.96	0.96
Pdh Tj = 12°C	2.62 kW	2.56 kW
COP Tj = 12°C	7.24	6.46
Cdh	0.96	0.96
Pdh Tj = Tbiv	4.09 kW	3.88 kW
COP Tj = Tbiv	2.13	1.67
Pdh Tj = TOL	4.04 kW	3.40 kW
COP Tj = TOL	2.00	1.50
WTOL	70 °C	70 °C
Poff	8 W	8 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3076 kWh	3930 kWh
Pdh Tj = -15°C (if TOL<-20°C)	4.09	3.88
COP Tj = -15°C (if TOL<-20°C)	2.13	1.67
Cdh	0.99	0.99

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	51 dB(A)	54 dB(A)

Model: HA 5-6 O 230V B2

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	3.36 kW	4.83 kW
El input	0.69 kW	1.71 kW
COP	4.80	2.80
Indoor water flow rate	0.58 m ³ /h	0.53 m ³ /h

EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	51 dB(A)	54 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	181 %	129 %
Prated	4.81 kW	4.88 kW
SCOP	4.59	3.29
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.26 kW	4.32 kW
COP Tj = -7°C	2.78	2.11
Cdh	0.99	0.99
Pdh Tj = +2°C	2.70 kW	2.46 kW
COP Tj = +2°C	4.62	3.19
Cdh	0.97	0.98
Pdh Tj = +7°C	2.29 kW	2.12 kW
COP Tj = +7°C	6.41	4.40
Cdh	0.96	0.97
Pdh Tj = 12°C	2.61 kW	2.52 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

COP Tj = 12°C	7.61	6.03
Cdh	0.96	0.96
Pdh Tj = Tbiv	4.26 kW	4.32 kW
COP Tj = Tbiv	2.78	2.11
Pdh Tj = TOL	4.13 kW	4.63 kW
COP Tj = TOL	2.43	1.86
WTOL	70 °C	70 °C
Poff	8 W	8 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2165 kWh	3062 kWh

Warmer Climate

EN 14825		
	Low temperature	Medium temperature
η_s	225 %	153 %
Prated	4.96 kW	5.07 kW
SCOP	5.71	3.91

This information was generated by the HP KEYMARK database on 17 Dec 2020

Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.96 kW	5.07 kW
COP Tj = +2°C	3.35	2.30
Cdh	0.99	0.99
Pdh Tj = +7°C	3.42 kW	3.08 kW
COP Tj = +7°C	5.45	3.43
Cdh	0.97	0.98
Pdh Tj = 12°C	2.59 kW	2.42 kW
COP Tj = 12°C	7.25	5.17
Cdh	0.96	0.97
Pdh Tj = Tbiv	4.96 kW	5.07 kW
COP Tj = Tbiv	3.35	2.30
Pdh Tj = TOL	4.96 kW	5.07 kW
COP Tj = TOL	3.35	2.30
WTOL	70 °C	70 °C
Poff	8 W	8 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity

This information was generated by the HP KEYMARK database on 17 Dec 2020

Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1161 kWh	1733 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	51 dB(A)	54 dB(A)

Colder Climate

EN 14825		
	Low temperature	Medium temperature
η_s	157 %	116 %
Prated	5.01 kW	4.76 kW
SCOP	3.99	2.97
T _{biv}	-15 °C	-15 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	3.22 kW	2.89 kW
COP T _j = -7°C	3.36	2.45
C _{dh}	0.98	0.99
P _{dh} T _j = +2°C	1.92 kW	1.85 kW
COP T _j = +2°C	5.04	3.65
C _{dh}	0.96	0.97

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = +7°C	2.33 kW	2.21 kW
COP Tj = +7°C	6.82	5.01
Cdh	0.96	0.96
Pdh Tj = 12°C	2.62 kW	2.56 kW
COP Tj = 12°C	7.24	6.46
Cdh	0.96	0.96
Pdh Tj = Tbiv	4.09 kW	3.88 kW
COP Tj = Tbiv	2.13	1.67
Pdh Tj = TOL	4.04 kW	3.40 kW
COP Tj = TOL	2.00	1.50
WTOL	70 °C	70 °C
Poff	8 W	8 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3094 kWh	3948 kWh
Pdh Tj = -15°C (if TOL<-20°C)	4.09	3.88
COP Tj = -15°C (if TOL<-20°C)	2.13	1.67
Cdh	0.99	0.99

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	51 dB(A)	54 dB(A)

Model: HA 5-6 O 230V B3

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2

	Low temperature	Medium temperature
Heat output	4.21 kW	4.83 kW
El input	0.95 kW	1.71 kW
COP	4.39	2.80
Indoor water flow rate	0.74 m ³ /h	0.53 m ³ /h

Average Climate

EN 14825

	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

η_s	177 %	130 %
Prated	4.45 kW	4.88 kW
SCOP	4.50	3.33
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.93 kW	4.32 kW
COP Tj = -7°C	2.79	2.11
Cdh	0.99	0.99
Pdh Tj = +2°C	2.17 kW	2.46 kW
COP Tj = +2°C	4.46	3.19
Cdh	0.97	0.98
Pdh Tj = +7°C	2.26 kW	2.12 kW
COP Tj = +7°C	5.99	4.40
Cdh	0.96	0.96
Pdh Tj = 12°C	2.54 kW	2.52 kW
COP Tj = 12°C	7.16	6.03
Cdh	0.96	0.96
Pdh Tj = Tbiv	3.93 kW	4.32 kW
COP Tj = Tbiv	2.79	2.11
Pdh Tj = TOL	4.42 kW	4.63 kW
COP Tj = TOL	2.21	1.86

This information was generated by the HP KEYMARK database on 17 Dec 2020

WTOL	55 °C	55 °C
Poff	8 W	8 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2043 kWh	3031 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	52 dB(A)	54 dB(A)

Warmer Climate

EN 14825		
	Low temperature	Medium temperature
η_s	215 %	157 %
Prated	4.75 kW	5.07 kW
SCOP	5.44	3.99
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = +2°C	4.75 kW	5.07 kW
COP Tj = +2°C	3.22	2.30
Cdh	0.99	0.99
Pdh Tj = +7°C	3.33 kW	3.08 kW
COP Tj = +7°C	5.07	3.43
Cdh	0.98	0.98
Pdh Tj = 12°C	2.48 kW	2.42 kW
COP Tj = 12°C	6.61	5.17
Cdh	0.96	0.97
Pdh Tj = Tbiv	4.75 kW	5.07 kW
COP Tj = Tbiv	3.22	2.30
Pdh Tj = TOL	4.75 kW	5.07 kW
COP Tj = TOL	3.22	2.30
WTOL	55 °C	55 °C
Poff	8 W	8 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1166 kWh	1697 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	52 dB(A)	54 dB(A)

Colder Climate

EN 14825		
	Low temperature	Medium temperature
η_s	148 %	116 %
Prated	4.68 kW	4.76 kW
SCOP	3.77	2.98
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	2.69 kW	2.89 kW
COP Tj = -7°C	3.26	2.45
Cdh	0.98	0.99
Pdh Tj = +2°C	1.90 kW	1.85 kW
COP Tj = +2°C	4.66	3.65
Cdh	0.96	0.97
Pdh Tj = +7°C	2.22 kW	2.21 kW
COP Tj = +7°C	6.04	5.01
Cdh	0.96	0.96

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = 12°C	2.49 kW	2.56 kW
COP Tj = 12°C	6.79	6.46
Cdh	0.96	0.96
Pdh Tj = Tbiv	3.82 kW	3.88 kW
COP Tj = Tbiv	2.01	1.67
Pdh Tj = TOL	3.70 kW	3.40 kW
COP Tj = TOL	1.88	1.50
WTOL	55 °C	55 °C
Poff	8 W	8 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3064 kWh	3930 kWh
Pdh Tj = -15°C (if TOL<-20°C)	3.82	3.88
COP Tj = -15°C (if TOL<-20°C)	2.01	1.67
Cdh	0.99	0.99

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	52 dB(A)	54 dB(A)

Model: HA 3-6 O 230V

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2

	Low temperature	Medium temperature
Heat output	3.32 kW	4.79 kW
El input	0.69 kW	1.71 kW
COP	4.80	2.80
Indoor water flow rate	0.58 m ³ /h	0.53 m ³ /h

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	51 dB(A)	54 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	177 %	124 %
Prated	4.19 kW	4.18 kW
SCOP	4.50	3.18
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.71 kW	3.69 kW
COP Tj = -7°C	3.04	2.08
Cdh	0.99	0.99
Pdh Tj = +2°C	2.18 kW	2.32 kW
COP Tj = +2°C	4.40	3.01
Cdh	0.97	0.98
Pdh Tj = +7°C	2.15 kW	2.03 kW
COP Tj = +7°C	5.96	4.28
Cdh	0.96	0.97
Pdh Tj = 12°C	2.41 kW	2.42 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

COP Tj = 12°C	7.04	5.84
Cdh	0.96	0.96
Pdh Tj = Tbiv	3.71 kW	3.69 kW
COP Tj = Tbiv	3.04	2.08
Pdh Tj = TOL	3.34 kW	3.31 kW
COP Tj = TOL	2.51	1.81
WTOL	55 °C	55 °C
Poff	8 W	8 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1923 kWh	2715 kWh

Warmer Climate

EN 14825		
	Low temperature	Medium temperature
η_s	208 %	153 %
Prated	3.53 kW	3.55 kW
SCOP	5.29	3.89

This information was generated by the HP KEYMARK database on 17 Dec 2020

Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.53 kW	3.55 kW
COP Tj = +2°C	3.42	2.31
Cdh	0.98	0.99
Pdh Tj = +7°C	2.18 kW	2.44 kW
COP Tj = +7°C	4.97	3.37
Cdh	0.97	0.98
Pdh Tj = 12°C	2.40 kW	2.37 kW
COP Tj = 12°C	6.45	5.11
Cdh	0.96	0.97
Pdh Tj = Tbiv	3.53 kW	3.55 kW
COP Tj = Tbiv	3.42	2.31
Pdh Tj = TOL	3.53 kW	3.55 kW
COP Tj = TOL	3.42	2.31
WTOL	55 °C	55 °C
Poff	8 W	8 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity

This information was generated by the HP KEYMARK database on 17 Dec 2020

Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	892 kWh	1219 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	51 dB(A)	54 dB(A)

Colder Climate

EN 14825		
	Low temperature	Medium temperature
η_s	147 %	108 %
Prated	3.34 kW	3.15 kW
SCOP	3.75	2.78
T _{biv}	-15 °C	-15 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	2.11 kW	1.92 kW
COP T _j = -7°C	3.34	2.25
C _{dh}	0.98	0.98
P _{dh} T _j = +2°C	1.78 kW	1.71 kW
COP T _j = +2°C	4.45	3.46
C _{dh}	0.96	0.97

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = +7°C	2.16 kW	2.09 kW
COP Tj = +7°C	6.23	4.71
Cdh	0.96	0.97
Pdh Tj = 12°C	2.49 kW	2.44 kW
COP Tj = 12°C	7.22	6.17
Cdh	0.96	0.96
Pdh Tj = Tbiv	2.72 kW	2.57 kW
COP Tj = Tbiv	2.16	1.61
Pdh Tj = TOL	2.69 kW	2.43 kW
COP Tj = TOL	2.06	1.46
WTOL	55 °C	55 °C
Poff	8 W	8 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2192 kWh	2787 kWh
Pdh Tj = -15°C (if TOL<-20°C)		
COP Tj = -15°C (if TOL<-20°C)		
Cdh		

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	51 dB(A)	54 dB(A)

Model: HA 3-6 O 230V B2

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2

	Low temperature	Medium temperature
Heat output	3.32 kW	4.79 kW
El input	0.69 kW	1.71 kW
COP	4.80	2.80
Indoor water flow rate	0.58 m ³ /h	0.53 m ³ /h

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	51 dB(A)	54 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	174 %	123 %
Prated	4.19 kW	4.18 kW
SCOP	4.43	3.14
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.71 kW	3.69 kW
COP Tj = -7°C	3.04	2.08
Cdh	0.99	0.99
Pdh Tj = +2°C	2.18 kW	2.32 kW
COP Tj = +2°C	4.40	3.01
Cdh	0.97	0.98
Pdh Tj = +7°C	2.15 kW	2.03 kW
COP Tj = +7°C	5.96	4.28
Cdh	0.96	0.97
Pdh Tj = 12°C	2.41 kW	2.42 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

COP Tj = 12°C	7.04	5.84
Cdh	0.96	0.96
Pdh Tj = Tbiv	3.71 kW	3.69 kW
COP Tj = Tbiv	3.04	2.08
Pdh Tj = TOL	3.34 kW	3.31 kW
COP Tj = TOL	2.51	1.81
WTOL	55 °C	55 °C
Poff	8 W	8 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1953 kWh	2745 kWh

Warmer Climate

EN 14825		
	Low temperature	Medium temperature
η_s	200 %	148 %
Prated	3.53 kW	3.55 kW
SCOP	5.08	3.78

This information was generated by the HP KEYMARK database on 17 Dec 2020

Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.53 kW	3.55 kW
COP Tj = +2°C	3.42	2.31
Cdh	0.98	0.99
Pdh Tj = +7°C	2.18 kW	2.44 kW
COP Tj = +7°C	4.97	3.37
Cdh	0.97	0.98
Pdh Tj = 12°C	2.40 kW	2.37 kW
COP Tj = 12°C	6.45	5.11
Cdh	0.96	0.97
Pdh Tj = Tbiv	3.53 kW	3.55 kW
COP Tj = Tbiv	3.42	2.31
Pdh Tj = TOL	3.53 kW	3.55 kW
COP Tj = TOL	3.42	2.31
WTOL	55 °C	55 °C
Poff	8 W	8 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity

This information was generated by the HP KEYMARK database on 17 Dec 2020

Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	928 kWh	1255 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	51 dB(A)	54 dB(A)

Colder Climate

EN 14825		
	Low temperature	Medium temperature
η_s	146 %	108 %
Prated	3.34 kW	3.15 kW
SCOP	3.72	2.77
T _{biv}	-15 °C	-15 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	2.11 kW	1.92 kW
COP T _j = -7°C	3.34	2.25
C _{dh}	0.98	0.98
P _{dh} T _j = +2°C	1.78 kW	1.71 kW
COP T _j = +2°C	4.45	3.46
C _{dh}	0.96	0.97

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = +7°C	2.16 kW	2.09 kW
COP Tj = +7°C	6.23	4.71
Cdh	0.96	0.97
Pdh Tj = 12°C	2.49 kW	2.44 kW
COP Tj = 12°C	7.22	6.17
Cdh	0.96	0.96
Pdh Tj = Tbiv	2.72 kW	2.57 kW
COP Tj = Tbiv	2.16	1.61
Pdh Tj = TOL	2.69 kW	2.43 kW
COP Tj = TOL	2.06	1.46
WTOL	55 °C	55 °C
Poff	8 W	8 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2210 kWh	2805 kWh
Pdh Tj = -15°C (if TOL<-20°C)		
COP Tj = -15°C (if TOL<-20°C)		
Cdh		

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	51 dB(A)	54 dB(A)

Model: HA 4-6 O 230V B3

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	4.07 kW	3.64 kW
El input	0.89 kW	1.28 kW
COP	4.59	2.83
Indoor water flow rate	0.70 m ³ /h	0.40 m ³ /h

EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	50 dB(A)	52 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	180 %	131 %
Prated	4.13 kW	4.22 kW
SCOP	4.56	3.34
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.65 kW	3.73 kW
COP Tj = -7°C	2.97	2.12
Cdh	0.99	0.99
Pdh Tj = +2°C	2.20 kW	2.28 kW
COP Tj = +2°C	4.48	3.24
Cdh	0.97	0.98
Pdh Tj = +7°C	2.23 kW	2.11 kW
COP Tj = +7°C	6.02	4.45
Cdh	0.96	0.97
Pdh Tj = 12°C	2.59 kW	2.54 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

COP Tj = 12°C	7.39	5.97
Cdh	0.96	0.96
Pdh Tj = Tbiv	3.65 kW	3.73 kW
COP Tj = Tbiv	2.97	2.12
Pdh Tj = TOL	3.65 kW	3.35 kW
COP Tj = TOL	2.65	1.86
WTOL	75 °C	75 °C
Poff	8 W	8 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1870 kWh	2606 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	50 dB(A)	52 dB(A)

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

η_s	220 %	155 %
Prated	3.40 kW	3.43 kW
SCOP	5.57	3.94
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.44 kW	3.43 kW
COP Tj = +2°C	3.36	2.28
Cdh	0.98	0.99
Pdh Tj = +7°C	2.33 kW	2.16 kW
COP Tj = +7°C	5.21	3.39
Cdh	0.97	0.98
Pdh Tj = 12°C	2.57 kW	2.45 kW
COP Tj = 12°C	7.00	5.25
Cdh	0.96	0.97
Pdh Tj = Tbiv	3.44 kW	3.43 kW
COP Tj = Tbiv	3.36	2.28
Pdh Tj = TOL	3.44 kW	3.43 kW
COP Tj = TOL	3.36	2.28
WTOL	75 °C	75 °C
Poff	8 W	8 W
PTO	17 W	17 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	815 kWh	1164 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	50 dB(A)	52 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	152 %	113 %
Prated	4.00 kW	3.48 kW
SCOP	3.87	2.90
T _{biv}	-15 °C	-15 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	2.42 kW	2.12 kW
COP T _j = -7°C	3.26	2.40
C _{dh}	0.98	0.98

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = +2°C	1.92 kW	1.76 kW
COP Tj = +2°C	4.80	3.53
Cdh	0.96	0.97
Pdh Tj = +7°C	2.26 kW	2.14 kW
COP Tj = +7°C	6.27	4.81
Cdh	0.96	0.97
Pdh Tj = 12°C	2.59 kW	2.57 kW
COP Tj = 12°C	7.39	6.27
Cdh	0.96	0.96
Pdh Tj = Tbiv	3.11 kW	2.84 kW
COP Tj = Tbiv	2.37	1.76
Pdh Tj = TOL	2.66 kW	2.41 kW
COP Tj = TOL	2.02	1.47
WTOL	75 °C	75 °C
Poff	8 W	8 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2543 kWh	2959 kWh