Technische fiche 1/3

ELFO Energy Ground medium²

WSH-XEE2 22.2

1/3 Fiche technique

ELFO Energy Ground medium²

Monoblok	Reeks		**ELFOEnergy Ground Medium²**		Série	Monobloc
	Fabriekscode		**WSH-XEE2 22.2**		Fabriekscode	
Koelmiddel			R410a			Réfrigérant
Erp (*)	Energielabel W35		A++		Label d'efficacité W35	Erp (*)
	ηs,h W35	%	157	%	ηs,h W35	
	SCOP W35		4,11		SCOP W35	
Verwarming (**)	Vermogen B0/W35	kW	63,5	kW	Puissance B0/W35	Chauffage (**)
	Opgen. elektr. vermogen	kW	15,20	kW	Puissance él. absorbée	
	COP		4,18		COP	
Monoblok	Geluidsdruk (1m)	dB(A)	49	dB(A)	Niv. son. press. (1m)	Monobloc
	Geluidsvermogen	dB	64	dB	Niv. son. puiss.	
	Werkingslim. verwarmen wateruittrede (B0)	°C	24~57	°C	Plage de fonct. chauff. Sortie d'eau	
	Werkingslim. verwarmen brontemp.	°C	-8~21	°C	Plage de fonct. chauff. Temp. Source	
	Hoogte-breedte-lengte	mm	1483-837-607	mm	Hauteur/largeur/profond.	
	Gewicht	kg	322	kg	Poids	
	Communicatie		Modbus RTU		Communication	
Elektr. Install.	Voeding	V	400V/3F+N	V	Alimentation	Install. Électr.
	Stroom max.	A	44,9	A	Amp. max	
	Max startstroom	A	111	A	Courant de démarrage maximal	
Tech.install.	Waterdebiet bron	l/s	2,63	l/s	Débit d'eau source	Install. Techn.
	Glycol broncircuit	%	30	%	Eau glycolée source	
	Waterdebiet user	l/s	3,39	l/s	Débit d'eau user	
	Drukval wisselaar user	kPa	53,5	kPa	Perte de press. Échangeur user	
	Drukval wisselaar bron	kPa	42,7	kPa	Perte de press. Échangeur source	
	Koelcircuits		1		Circuits refrigérants	
	Compressor		Scroll		Compresseur	
	Aantal compressors		2		Quantité compresseurs	
	Softstarter voor compressoren		Ja/Oui		Démarreur progressif compresseurs	
	Aantal capaciteitstrappen		3		Nombre d'étapes de capacité	
	Type wisselaar		Platen/Plaque		Type échangeur	
	Waterinhoud wisselaar	l	7,05	l	Contenu d'eau échangeur	
	Min. primaire waterinhoud	l	470	l	Contenu Min. d'eau prim. heat/cool	
	Aansluitingen waterzijdig	"	1 1/4	"	Connections d'eau	
Koelmiddel (***)	Koudemiddel		R410a		Réfrigérant	Réfrigérant (***)
	GWP-waarde		2088		GWP-valeur	
	Standaardvulling	kg	8	kg	Charge standard	
	CO_2 eq. Standaardvulling	ton	16,70	ton	CO_2 eq. Charge standard	
	Bijvulling	g/m	-	g/m	Charge supplémentaire	
	CO_2 eq. Bijvulling	ton/m	-	ton/m	CO_2-eq Charge supplémentaire	
	Bevat gefluoreerde broeikasgassen		Ja/Oui		Contient des gaz à effet de serre fluorés	
	Hermetisch gesloten koelcircuit		Ja/Oui		hermétiquement scellé	

(*) EU 811/2013 (≤70kW en EU 813/2013 (≤400kW)

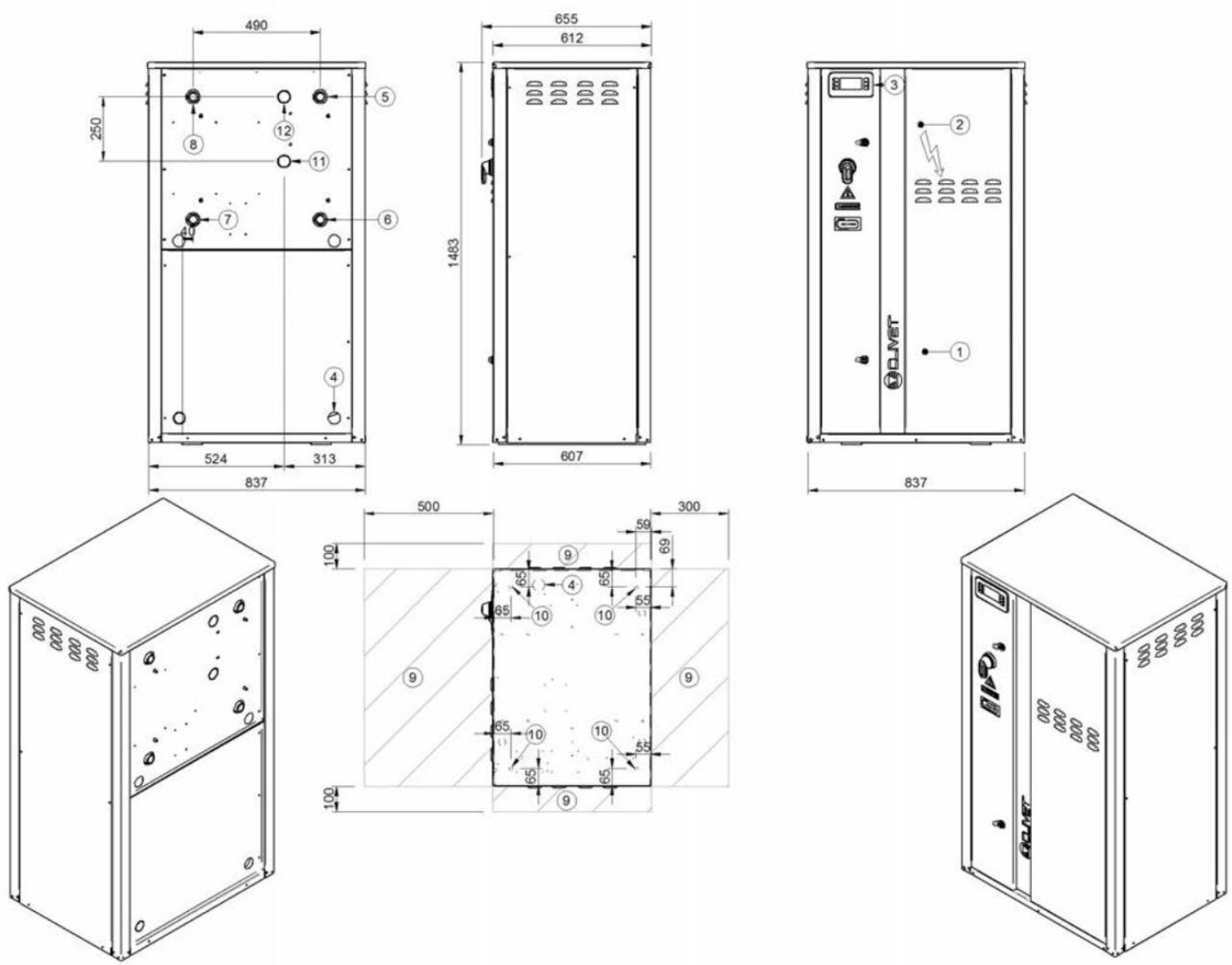
(**) EN 14511:2018

(***) Europese verordening nr 517/2014 betreffende gefluoreerde broeikasgassen

(*) EU 811/2013 (≤70kW et EU 813/2013 (≤400kW)

(**) EN 14511:2018

(***) Le décret Européen n° 517/2014 sur le gaz à effet de serre fluorés



1) Compressor compartment
2) Electrical panel
3) Unit control keypad
4) Power input
5) Source side water return (1" 1/4 GAS)
6) Source side water supply (1" 1/4 GAS)
7) User side water return (1" 1/4 GAS)
8) User side water supply (1" 1/4 GAS)
9) Functional spaces
10) Vibration damper mounts Ø 12,5
11) Partial recovery water return (1" 1/4 GAS) (optional)
12) Partial recovery water supply (1" 1/4 GAS) (optional)

SIZE		12.2	16.2	19.2	22.2
Length	mm	837	837	837	837
Height	mm	1483	1483	1483	1483
Depth	mm	961	961	961	961
Operating weight	kg	296	366	386	399
Shipping weight	kg	276	338	353	371

The presence of optional accessories may result in a substantial variation of the weights shown in the table.

Bediening

Commande

Leaving water temperature control with PID algorithm: it keeps the leaving mean temperature to a set value.

- Auto-adaptive switching on differential: guarantees the compressors minimum operating time in systems with low water content.
- Condensation control based on pressure
- Pre-alarms at automatic reset: in case of alarm it is allowed a certain number of restarts before the definitive lock.
- Compressor operating hour calculation
- Compressor start calculation
- Control and continuous management of the compressor operating conditions to guarantee the unit operating also in extreme conditions
- Water temperature check (when used) to avoid the pipe freezing
- Alarm log
- Autostart after voltage drop
- Local or remote control

Cascade

Cascade

Management of more units in cascade (ECOSHARE)

It allows the management of several units hydraulically connected up to 1 master and 6 slave maximum.
Units must be of the same type: all reversible heat pumps, or all cool only, or all heat only.
Sizes can be different.
The communication among the units is via a BUS serial cable allowing:

- Supply water set-point setting of the slave units
- Setting of logics that increase the system energy efficiency
- Unit operating hours balancing
- Unit management in case of damage (only on slave unit)
- Hydronic assembly switch-off management of units not used