SPLIT - OUTDOOR UNITS

MODEL			GSH-40ERB	GSH-60ERB	GSH-80ERB	GSH-100ERB	GSH-120ERB
Suitable for building heat loss			3 - 5 kW	4 - 6 kW	6 - 8 kW	7 - 9,5 kW	10 - 12 kW
Capacity*1	Cooling (floor cooling)	kW	3,8	5,8	7	8,5	11
	Heating (floor heating)	kW	4	6	8	9,5	12
Power Input*1	Cooling (floor cooling)	kW	0,8	1,32	1,75	2,24	2,5
	Heating (floor heating)	kW	0,78	1,2	1,7	2,07	2,4
EER*1 (floor cooling)		-	4,75	4,4	4	3,8	4,4
COP*1 (floor heating)		-	5,1	5	4,7	4,6	5
Capacity*2	Cooling (fan coil)	kW	3,15	4,09	5,3	6,5	10,59
	Heating (fan coil or radiator)	kW	4	5,9	8	9,5	12,4
Power Input*2	Cooling (floor cooling)	kW	0,92	1,28	1,73	2,27	3,79
	Heating (fan coil or radiator)	kW	1,02	1,51	2,14	2,64	3,29
EER*2 (fan coil)		-	3,4	3,2	3	2,9	2,79
COP*2 (fan coil or radiator)		-	3,9	3,9	3,7	3,6	3,77
Refrigerant		Typ / kg / t Eq. CO_2	R32 / 1 / 0,675	R32 / 1 / 0,675	R32 / 1,6 / 1,08	R32 / 1,6 / 1,08	R32 / 1,84 / 1,242
Average climate SCOP (55 °C / 35 °C)		-	3,3/4,7	3,3/4,5	3,3/4,6	3,3/4,6	3,5/4,6
Energy class (55 °C / 35 °C)		-	A++/A+++	A++/A+++	A++/A+++	A++/A+++	A++/A+++
Compressor type		-	twin rotary				
Fin coating		-	gold fin				
Operation range	Cooling	°C	7~25				
	Heating	°C	20~60				
	DHW	°C	40~80 (55 °C maximum by compressor)				
Outdoor air operation temperature range	Cooling	°C	10~48				
	Heating	°C	-25~35				
	DHW	°C	-25~43				
Sound pressure level	Cooling	dB (A)	52	52	55	55	58
	Heating	dB (A)	52	52	55	55	60
Dimensions (WxDxH)	Outline	mm	975×396×702	975×396×702	982×427×787	982×427×787	940×460×820
	Package	mm	1028×458×830	1028×458×830	1097×478×937	1097×478×937	1073×563×868
Net/gross weight		kg	55/65	55/65	82/92	82/92	104/114
Power supply		V/Ph/Hz	220-240 / 1 / 50				
Circuit breaker		A	16	16	20	25	32
Minimum crosssection of the earth wire		mm^2	2,5	2,5	4	6	10
Minimum crosssection of the power supply wire		mm^2	2,5	2,5	4	6	10
Inrush current		A	1	1	1	1	1
Nominal		A	3,4	5,4	7,4	9	10,4
Maximum (rated) current		A	10	10	19	22	26
Pipe size - Gas		inch	1/2"				5/8"
Pipe size - Liquid		inch	1/4"				
Precharged length		m	10				15
Length - Standard (Min.)		m	5 (3,5)				
Length - Max.		m	20		25		15
Height - Standard		m	0				
Height - Max.		m	15				
Additional refrigerant		g/m	16				0
Gas pipe tightening torque		N/m	45-55				60-65
Liquid pipe tightening torque		N/m	15-25				
OTHER TECHNICAL DATA							
Distance of holes	W x D	mm	364×560	364×560	395×650	395×650	460×610
Communication cable		mm^2	2x0,129	2x0,129	2x0,129	2x0,129	2x0,129
Recommended power supply cable		mm^2	3×2,5	3×2,5	3×6	3×6	3×10
STANDARD ACCESSORIES							
Y-filter		-	yes				
Communication cable		-	yes (12 m)				
Wall bracket with anchors		-	yes				
Flare nut		-	yes				
Remote Air Temperature Sensor with cable		-	yes (9,5 m)				
Display communication cable		-	yes (8 m)				
Temperature sensor for DHW		-	yes (20 m)				
Temperature sensor for E-heater		-	yes (5,5 m)				
Product fiche + energy label		-	yes				

Values marked *1 condition:
Cooling: Indoor Water Temperature: 23 °C/18 °C, Outdoor Temperature: 35 °C DB/24 °C WB
Heating: Indoor Water Temperature: W30 °C/35 °C, Outdoor Temperature: 7 °C DB/6 °C WB
Values marked *2 condition:
Cooling: Indoor Water Temperature: 12 °C/7 °C, Outdoor Temperature: 35°C DB/24°C WB
Heating: Indoor Water Temperature: 40 °C/45 °C, Outdoor Temperature: 7 °C DB/6 °C WB
The specification of products is subject to change based on further development of the units by the producer and can be changed without prior notice. Refer to rating label.
R32 (single component refrigerant HFC-32), GWP of refrigerant used: 675.
Contains fluorinated greenhouse gases covered by the Kyoto Protocol.
Explanatory notes on the very last page of the catalogue.
Cross-section of each wire must correspond to the IEC 60364.

SPLIT - OUTDOOR UNITS

MODEL			GSH-140ERB	GSH-160ERB	GSH-80ERB-3	GSH-100ERB-3	GSH-120ERB-3
Suitable for building heat loss			11 - 14 kW	12 - 15 kW	6 - 8 kW	7 - 9,5 kW	10 - 12 kW
Capacity*1	Cooling (floor cooling)	kW	12,6	13	8,5	10	11
	Heating (floor heating)	kW	14	15,5	8	10	12
Power Input*1	Cooling (floor cooling)	kW	3,41	3,6	1,74	2,33	2,5
	Heating (floor heating)	kW	2,98	3,44	1,63	2,15	2,4
EER*1 (floor cooling)		-	3,7	3,6	4,89	4,29	4,4
COP*1 (floor heating)		-	4,7	4,5	4,91	4,65	5
Capacity*2	Cooling (fan coil)	kW	11,07	11,51	7,6	8,2	10,65
	Heating (fan coil or radiator)	kW	14,48	16,09	8	10,2	12,29
Power Input*2	Cooling (floor cooling)	kW	4,18	4,49	1,52	1,91	3,74
	Heating (fan coil or radiator)	kW	3,93	4,44	1,92	2,55	3,09
EER*2 (fan coil)		-	2,65	2,57	5	4,3	2,85
COP*2 (fan coil or radiator)		-	3,68	3,62	4,16	4	3,98
Refrigerant		Typ / kg / t Eq. CO_2	R32 / 1,84 / 1,242	R32 / 1,84 / 1,242	R32 / 1,84 / 1,242	R32 / 1,84 / 1,242	R32 / 1,84 / 1,242
Average climate SCOP (55 °C / 35 °C)		-	3,5/4,7	3,5/4,5	3,2/4,6	3,5/4,7	3,2/4,5
Energy class (55 °C / 35 °C)		-	A++/A+++	A++/A+++	A++/A+++	A++/A+++	A++/A+++
Compressor type		-	twin rotary				
Fin coating		-	gold fin				
Operation range	Cooling	°C	7~25				
	Heating	°C	20~60				
	DHW	°C	40~80 (55 °C maximum by compressor)				
Outdoor air operation temperature range	Cooling	°C	10~48				
	Heating	°C	-25~35				
	DHW	°C	-25~43				
Sound pressure level	Cooling	dB (A)	59	60	55	55	58
	Heating	dB (A)	61	61	55	55	60
Dimensions (WxDxH)	Outline	mm	940×460×820	940×460×820	982×395×787	982×395×787	940×460×820
	Package	mm	1073×563×868	1073×563×868	1097×478×937	1097×478×937	1073×563×868
Net/gross weight		kg	104/114	104/114	88/98	88/98	110/121
Power supply		V/Ph/Hz	220-240 / 1 / 50		380-415 / 3 / 50		
Circuit breaker		A	40	40	16	16	16
Minimum crosssection of the earth wire		mm^2	10	10	2,5	2,5	2,5
Minimum crosssection of the power supply wire		mm^2	10	10	2,5	2,5	2,5
Inrush current		A	1	1	1	1	1
Nominal		A	13	15	2,35	3,1	2,02
Maximum (rated) current		A	29	31	7,5	8	9,2
Pipe size - Gas		inch	5/8"		1/2"		5/8"
Pipe size - Liquid		inch	1/4"				
Precharged length		m	15				
Length - Standard (Min.)		m	5 (3,5)				
Length - Max.		m	15				
Height - Standard		m	0				
Height - Max.		m	15				
Additional refrigerant		g/m	0				
Gas pipe tightening torque		N/m	60-65		45-55		60-65
Liquid pipe tightening torque		N/m	15-25				
OTHER TECHNICAL DATA							
Distance of holes	W x D	mm	460×610	460×610	395×650	395×650	460×610
Communication cable		mm^2	3x0,129	3x0,129	3x0,129	3x0,129	3x0,129
Recommended power supply cable		mm^2	3×10	3×10	5×2,5	5×2,5	5×2,5
STANDARD ACCESSORIES							
Y-filter		-	yes				
Communication cable		-	yes (12 m)				
Wall bracket with anchors		-	yes				
Flare nut		-	yes				
Remote Air Temperature Sensor with cable		-	yes (9,5 m)				
Display communication cable		-	yes (8 m)				
Temperature sensor for DHW		-	yes (20 m)				
Temperature sensor for E-heater		-	yes (5,5 m)				
Product fiche + energy label		-	yes				

Values marked *1 condition:
Cooling: Indoor Water Temperature: 23 °C/18 °C, Outdoor Temperature: 35 °C DB/24 °C WB
Heating: Indoor Water Temperature: W30 °C/35 °C, Outdoor Temperature: 7 °C DB/6 °C WB
Values marked *2 condition:
Cooling: Indoor Water Temperature: 12 °C/7 °C, Outdoor Temperature: 35°C DB/24°C WB
Heating: Indoor Water Temperature: 40 °C/45 °C, Outdoor Temperature: 7 °C DB/6 °C WB
The specification of products is subject to change based on further development of the units by the producer and can be changed without prior notice. Refer to rating label.
R32 (single component refrigerant HFC-32), GWP of refrigerant used: 675.
Contains fluorinated greenhouse gases covered by the Kyoto Protocol.
Explanatory notes on the very last page of the catalogue.
Cross-section of each wire must correspond to the IEC 60364.

SPLIT - OUTDOOR UNITS

MODEL			GSH-140ERB-3	GSH-160ERB-3			
Suitable for building heat loss			11 - 14 kW	12 - 15 kW			
Capacity*1	Cooling (floor cooling)	kW	12,6	13			
	Heating (floor heating)	kW	14	15,5			
Power Input*1	Cooling (floor cooling)	kW	3,41	3,6			
	Heating (floor heating)	kW	2,98	3,44			
EER*1 (floor cooling)		-	3,7	3,6			
COP*1 (floor heating)		-	4,7	4,51			
Capacity*2	Cooling (fan coil)	kW	11,24	11,52			
	Heating (fan coil or radiator)	kW	14,44	16,13			
Power Input*2	Cooling (floor cooling)	kW	4,13	4,38			
	Heating (fan coil or radiator)	kW	3,63	4,16			
EER*2 (fan coil)		-	2,72	2,63			
COP*2 (fan coil or radiator)		-	3,98	3,88			
Refrigerant		Typ / kg / t Eq. CO_2	R32 / 1,84 / 1,242	R32 / 1,84 / 1,242			
Average climate SCOP (55 °C / 35 °C)		-	3,4/4,5	3,4/4,5			
Energy class (55 °C / 35 °C)		-	A++/A+++	A++/A+++			
Compressor type		-	twin rotary				
Fin coating		-	gold fin				
Operation range	Cooling	°C	7~25				
	Heating	°C	20~60				
	DHW	°C	40~80 (55 °C maximum by compressor)				
Outdoor air operation temperature range	Cooling	°C	10~48				
	Heating	°C	-25~35				
	DHW	°C	-25~43				
Sound pressure level	Cooling	dB (A)	59	60			
	Heating	dB (A)	61	61			
Dimensions (WxDxH)	Outline	mm	940×460×820	940×460×820			
	Package	mm	1073×563×868	1073×563×868			
Net/gross weight		kg	110/121	110/121			
Power supply		V/Ph/Hz	380-415 / 3 / 50				
Circuit breaker		A	16	16			
Minimum crosssection of the earth wire		mm^2	2,5	2,5			
Minimum crosssection of the power supply wire		mm^2	2,5	2,5			
Inrush current		A	1	1			
Nominal		A	4,3	4,97			
Maximum (rated) current		A	11,5	11,5			
Pipe size - Gas		inch	5/8"				
Pipe size - Liquid		inch	1/4"				
Precharged length		m	15				
Length - Standard (Min.)		m	5 (3,5)				
Length - Max.		m	15				
Height - Standard		m	0				
Height - Max.		m	15				
Additional refrigerant		g/m	0				
Gas pipe tightening torque		N/m	60-65				
Liquid pipe tightening torque		N/m	15-25				
OTHER TECHNICAL DATA							
Distance of holes	W x D	mm	460×610	460×610			
Communication cable		mm^2	3x0,129	3x0,129			
Recommended power supply cable		mm^2	5×2,5	5×2,5			
STANDARD ACCESSORIES							
Y-filter		-	yes				
Communication cable		-	yes (12 m)				
Wall bracket with anchors		-	yes				
Flare nut		-	yes				
Remote Air Temperature Sensor with cable		-	yes (9,5 m)				
Display communication cable		-	yes (8 m)				
Temperature sensor for DHW		-	yes (20 m)				
Temperature sensor for E-heater		-	yes (5,5 m)				
Product fiche + energy label		-	yes				

Values marked *1 condition:
Cooling: Indoor Water Temperature: 23 °C/18 °C, Outdoor Temperature: 35 °C DB/24 °C WB
Heating: Indoor Water Temperature: W30 °C/35 °C, Outdoor Temperature: 7 °C DB/6 °C WB
Values marked *2 condition:
Cooling: Indoor Water Temperature: 12 °C/7 °C, Outdoor Temperature: 35°C DB/24°C WB
Heating: Indoor Water Temperature: 40 °C/45 °C, Outdoor Temperature: 7 °C DB/6 °C WB
The specification of products is subject to change based on further development of the units by the producer and can be changed without prior notice. Refer to rating label.
R32 (single component refrigerant HFC-32), GWP of refrigerant used: 675.
Contains fluorinated greenhouse gases covered by the Kyoto Protocol.
Explanatory notes on the very last page of the catalogue.
Cross-section of each wire must correspond to the IEC 60364.

SPLIT - HYDROBOX INDOOR UNIT

MODEL			GSH-40IRB	GSH-60IRB	GSH-80IRB	GSH-100IRB	GSH-120IRB
Power supply		V/Ph/Hz	220-240/1/50				
Connecting pipe (refrigerant)	Gas	inch	1/2"				5/8"
	Liquid		1/4"				
Connecting pipe (water)	Inlet	inch	1" (outer)				
	Outlet						
Safety valve		bar	3				
Leaving water temperature	Cooling	°C	7-25				
	Heating		20-60				
MAIN COMPONENTS							
Additional water pump	Type	-	Inverter PWM1				
	Speed	-	Automatic regulation				
	Max. power	W	75				87
Expansion tank	Volume	l	10				
	Max. pressure	bar	3				
	Pressure	bar	1				
Auxiliary electric heater	Type	-	Automatic				
	Capacity	kW	3		6		
	Combination	-	1,5+1,5		3+3		
	Power supply	V/Ph/Hz	220-240 / 1 / 50				
Heat exchanger	Type	-	Blazed plate				
Level of acoustic pressure in 1m		dB (A)	29				
Dimensions (WxDxH)	Outline	mm	460×318×860				
	Packaged		565×375×1130				568×390×1133
Weight	Net	kg	62				59,5
	Gross		71				68,5
Maximum current		A	13 (27*)	13 (27*)	26 (39,5*)	26 (39,5*)	26 (39,5*)
Circuit breaker		A	16 (32*)	16 (32*)	32 (40*)	32 (40*)	32 (40*)
Nominal current		A	<1	<1	<1	<1	<1
Recommended supply cable		-	3×2,5 (10*) mm^2	3×2,5 (10*) mm^2	3×10 mm^2	3×10 mm^2	3×10 mm^2
HEATING SYSTEM REQUIREMENTS							
Minimum water flow		l/min	10,8±1,7	10,8±1,7	10,8±1,7	10,8±1,7	10,8±1,7
Minimum water volume of heating system		l	60	90	120	150	180
STANDARD ACCESSORIES							
Three-way valve		-	Yes (already built in)				

Values marked with * are valid when DHW E-heater (3kW) is connected.
The specification of products is subject to change based on further development of the units by the producer and can be changed without prior notice. Refer to rating label.
R32 (single component refrigerant HFC-32), GWP of refrigerant used: 675.
Contains fluorinated greenhouse gases covered by the Kyoto Protocol.
Explanatory notes on the very last page of the catalogue.
Cross-section of each wire must correspond to the IEC 60364.

SPLIT - HYDROBOX INDOOR UNIT

MODEL			GSH-140IRB	GSH-160IRB	GSH-80IRB-3	GSH-100IRB-3	GSH-120IRB-3
Power supply		V/Ph/Hz	220-240/1/50		380-415/3/50		
Connecting pipe (refrigerant)	Gas	inch	5/8"		1/2"		5/8"
	Liquid		1/4"				
Connecting pipe (water)	Inlet	inch	1" (outer)				
	Outlet						
Safety valve		bar	3				
Leaving water temperature	Cooling	°C	7-25				
	Heating		20-60				
MAIN COMPONENTS							
Additional water pump	Type	-	Inverter PWM1				
	Speed	-	Automatic regulation				
	Max. power	W	87				
Expansion tank	Volume	l	10				
	Max. pressure	bar	3				
	Pressure	bar	1				
Auxiliary electric heater	Type	-	Automatic				
	Capacity	kW	6				
	Combination	-	3+3				
	Power supply	V/Ph/Hz	220-240 / 1 / 50		380-415 / 3 / 50		
Heat exchanger	Type	-	Blazed plate				
Level of acoustic pressure in 1m		dB (A)	29				
Dimensions (WxDxH)	Outline	mm	460×318×860				
	Packaged		568×390×1133				
Weight	Net	kg	59,5				
	Gross		68,5				
Maximum current		A	26 (39,5*)	26 (39,5*)	9 (13*)	9 (13*)	9 (13*)
Circuit breaker		A	32 (40*)	32 (40*)	16	16	16
Nominal current		A	<1	<1	<1	<1	<1
Recommended supply cable		-	3×10 mm²	3×10 mm²	5×2,5 mm²	5×2,5 mm²	5×2,5 mm²
HEATING SYSTEM REQUIREMENTS							
Minimum water flow		l/min	10,8±1,7	10,8±1,7	10,8±1,7	10,8±1,7	10,8±1,7
Minimum water volume of heating system		l	210	240	120	150	180
STANDARD ACCESSORIES							
Three-way valve		-	Yes (already built in)				

MODEL			GSH-140IRB-3	GSH-160IRB-3			
Power supply		V/Ph/Hz	380-415/3/50				
Connecting pipe (refrigerant)	Gas	inch	5/8"				
	Liquid		1/4"				
Connecting pipe (water)	Inlet	inch	1" (outer)				
	Outlet						
Safety valve		bar	3				
Leaving water temperature	Cooling	°C	7-25				
	Heating		20-60				
MAIN COMPONENTS							
Additional water pump	Type	-	Inverter PWM1				
	Speed	-	Automatic regulation				
	Max. power	W	87				
Expansion tank	Volume	l	10				
	Max. pressure	bar	3				
	Pressure	bar	1				
Auxiliary electric heater	Type	-	Automatic				
	Capacity	kW	6				
	Combination	-	3+3				
	Power supply	V/Ph/Hz	380-415 / 3 / 50				
Heat exchanger	Type	-	Blazed plate				
Level of acoustic pressure in 1m		dB (A)	29				
Dimensions (WxDxH)	Outline	mm	460×318×860				
	Packaged		568×390×1133				
Weight	Net	kg	59,5				
	Gross		68,5				
Maximum current		A	9 (13*)	9 (13*)			
Circuit breaker		A	16	16			
Nominal current		A	<1	<1			
Recommended supply cable		-	5×2,5 mm²	5×2,5 mm²			
HEATING SYSTEM REQUIREMENTS							
Minimum water flow		l/min	10,8±1,7	10,8±1,7			
Minimum water volume of heating system		l	210	240			
STANDARD ACCESSORIES							
Three-way valve		-	Yes (already built in)				

Values marked with * are valid when DHW E-heater (3kW) is connected.
The specification of products is subject to change based on further development of the units by the producer and can be changed without prior notice. Refer to rating label.
R32 (single component refrigerant HFC-32), GWP of refrigerant used: 675. Contains fluorinated greenhouse gases covered by the Kyoto Protocol.
Explanatory notes on the very last page of the catalogue.
Cross-section of each wire must correspond to the IEC 60364.