

GS (A-B-C) SERİSİ / SERIES



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ISTANBUL TUZLA ORG SAN 12.CAD NO:4 IS TTURKEY

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Customer	GURCAN	Date	7.01.2018
To the k. a. of	IMALAT	Our Offer	GS C11 SC1
Your Reference		GS C11 27L 20 1 4X6	

DIRECT EXPANSION COIL - 102522_C_G 6T 4NR 270A 5,2P 1NC

Geometry	102522_C_G	Coil Length	270,0 mm		
Nr of Tubes per Row	6	Fin Pitch	5,20 mm		
Nr of Rows	4	Nr of Circuits	1	Tube Shape	Circular

Capacity	794	W
Sensible Capacity	420	W
Latent Capacity	374	W
Sensible/Total Capacity Ratio	0,5289	
Quantity of Produced Water	0,54	kg/h
Exchange Surface	1,37	m ²
Global Exchange Coefficient	36	W kg/(m ² kJ)
DHML	16,24	kJ / kg
Fins Material / Tubes Material	Aluminium / Copper	
Fin Thickness	0,1200	mm
Coil Internal Volume	0,4	l
Tubes External Diameter	9,54	mm
Tubes Internal Diameter	8,84	mm
Number of skipped tube	0	

AIR SIDE

Atmospheric Pressure / Altitude	1,01 / 0,00	bar A / m
Volumetric Air Flow	480,0	m ³ /h
Mass Air Flow	596	kg/h
Face Velocity on the Coil	3,29	m/s
Inlet Air Density	1,24	kg/m ³
Inlet Air Temperature	10,0	°C
Inlet Air Relative Humidity	95,00	%
Inlet Air Specific Humidity	7,10	g/kg AS
Inlet Air Enthalpy	28,08	kJ / kg
Outlet Air Temperature	7,5	°C
Outlet Air Relative Humidity	98,43	%
Outlet Air Specific Humidity	6,30	g/kg AS
Outlet Air Enthalpy	23,28	kJ / kg
Pressure Drop	114	Pa
Partial Exchange Coefficient	79	W/(m ² K)
Fouling Factor	0,000000	(m ² K)/W

REFRIGERANT SIDE

Fluid		R404A
Mass Fluid Flow / Mass velocity	22 / 101	kg/h / kg/(m ² s)
Fluid Velocity (Gaseous Phase / Liquid Phase)	3,33 / 0,09	m/s
Subcooling Degrees	3,0	K
Overheating Degrees	3,0	K
Evaporating Temperature - Middle	0,0	°C
Condensing Temperature - Middle	30,0	°C
Fluid Pressure Drop	5,93115	kPa
Manifold Pressure Drop	0	kPa
Total Pressure Drop Fluid Side	5,93115	kPa
Partial Exchange Coefficient	1295	W/(m ² K)
Fouling Factor	0,000000	(m ² K)/W

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Customer GURCAN**To the k. a. of** IMALAT**Your Reference****Date** 7.01.2018**Our Offer** GS C11 SC2**GS C11 27L 20 1 4X6****DIRECT EXPANSION COIL - 102522_C_G 6T 4NR 270A 5,2P 1NC**

Geometry	102522_C_G	Coil Length	270,0	mm	
Nr of Tubes per Row	6	Fin Pitch	5,20	mm	
Nr of Rows	4	Nr of Circuits	1		Tube Shape Circular
Capacity			484		W
Sensible Capacity			288		W
Latent Capacity			195		W
Sensible/Total Capacity Ratio			0,5963		
Quantity of Produced Water			0,30		kg/h
Exchange Surface			1,37		m ²
Global Exchange Coefficient			32		W kg/(m ² kJ)
DHML			11,18		kJ / kg
Fins Material / Tubes Material			Aluminium / Copper		
Fin Thickness			0,1200		mm
Coil Internal Volume			0,4		l
Tubes External Diameter			9,54		mm
Tubes Internal Diameter			8,84		mm
Number of skipped tube			0		

AIR SIDE

Atmospheric Pressure / Altitude	1,01 / 0,00	bar A / m
Volumetric Air Flow	480,0	m ³ /h
Mass Air Flow	619	kg/h
Face Velocity on the Coil	3,29	m/s
Inlet Air Density	1,29	kg/m ³
Inlet Air Temperature	0,0	°C
Inlet Air Relative Humidity	100,00	%
Inlet Air Specific Humidity	3,70	g/kg AS
Inlet Air Enthalpy	9,32	kJ / kg
Outlet Air Temperature	-1,7	°C
Outlet Air Relative Humidity	100,00	%
Outlet Air Specific Humidity	3,20	g/kg AS
Outlet Air Enthalpy	6,44	kJ / kg
Pressure Drop	109	Pa
Partial Exchange Coefficient	79	W/(m ² K)
Fouling Factor	0,000000	(m ² K)/W

REFRIGERANT SIDE

Fluid		R404A
Mass Fluid Flow / Mass velocity	14 / 64	kg/h / kg/(m ² s)
Fluid Velocity (Gaseous Phase / Liquid Phase)	2,72 / 0,05	m/s
Subcooling Degrees	3,0	K
Overheating Degrees	3,0	K
Evaporating Temperature - Middle	-8,0	°C
Condensing Temperature - Middle	30,0	°C
Fluid Pressure Drop	3,56553	kPa
Manifold Pressure Drop	0	kPa
Total Pressure Drop Fluid Side	3,56553	kPa
Partial Exchange Coefficient	908	W/(m ² K)
Fouling Factor	0,000000	(m ² K)/W

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Customer	GURCAN		Date	7.01.2018	
To the k. a. of	IMALAT		Our Offer	GS C11 SC3	
Your Reference			Description		
DIRECT EXPANSION COIL - 102522_C_G 6T 4NR 270A 5,2P 1NC					
Geometry	102522_C_G	Coil Length	270,0	mm	
Nr of Tubes per Row	6	Fin Pitch	5,20	mm	
Nr of Rows	4	Nr of Circuits	1	Tube Shape	Circular
Capacity			315	W	
Sensible Capacity			272	W	
Latent Capacity			42	W	
Sensible/Total Capacity Ratio			0,8650		
Quantity of Produced Water			0,07	kg/h	
Exchange Surface			1,37	m ²	
Global Exchange Coefficient			33	W kg/(m ² kJ)	
DHML			7,08	kJ / kg	
Fins Material / Tubes Material		Aluminium / Copper			
Fin Thickness			0,1200	mm	
Coil Internal Volume			0,4	l	
Tubes External Diameter			9,54	mm	
Tubes Internal Diameter			8,84	mm	
Number of skipped tube			0		
AIR SIDE					
Atmospheric Pressure / Altitude			1,01 / 0,00	bar A / m	
Volumetric Air Flow			480,0	m ³ /h	
Mass Air Flow			664	kg/h	
Face Velocity on the Coil			3,29	m/s	
Inlet Air Density			1,38	kg/m ³	
Inlet Air Temperature			-18,0	°C	
Inlet Air Relative Humidity			100,00	%	
Inlet Air Specific Humidity			0,80	g/kg AS	
Inlet Air Enthalpy			-16,25	kJ / kg	
Outlet Air Temperature			-19,5	°C	
Outlet Air Relative Humidity			100,00	%	
Outlet Air Specific Humidity			0,70	g/kg AS	
Outlet Air Enthalpy			-17,97	kJ / kg	
Pressure Drop			91	Pa	
Partial Exchange Coefficient			79	W/(m ² K)	
Fouling Factor			0,000000	(m ² K)/W	
REFRIGERANT SIDE					
Fluid				R404A	
Mass Fluid Flow / Mass velocity			10 / 45	kg/h / kg/(m ² s)	
Fluid Velocity (Gaseous Phase / Liquid Phase)			3,17 / 0,03	m/s	
Subcooling Degrees			3,0	K	
Overheating Degrees			3,0	K	
Evaporating Temperature - Middle			-25,0	°C	
Condensing Temperature - Middle			30,0	°C	
Fluid Pressure Drop			3,310236	kPa	
Manifold Pressure Drop			0	kPa	
Total Pressure Drop Fluid Side			3,310236	kPa	
Partial Exchange Coefficient			644	W/(m ² K)	
Fouling Factor			0,000000	(m ² K)/W	

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Date 7.01.2018
Our Offer GS C11 SC4
Description

DIRECT EXPANSION COIL - 102522_C_G 6T 4NR 270A 5,2P 1NC

Geometry	102522_C_G	Coil Length	270,0	mm	
Nr of Tubes per Row	6	Fin Pitch	5,20	mm	
Nr of Rows	4	Nr of Circuits	1		Tube Shape Circular
Capacity			253		W
Sensible Capacity			233		W
Latent Capacity			20		W
Sensible/Total Capacity Ratio			0,9222		
Quantity of Produced Water			0,03		kg/h
Exchange Surface			1,37		m ²
Global Exchange Coefficient			32		W kg/(m ² kJ)
DHML			5,78		kJ / kg
Fins Material / Tubes Material			Aluminium / Copper		
Fin Thickness			0,1200		mm
Coil Internal Volume			0,4		l
Tubes External Diameter			9,54		mm
Tubes Internal Diameter			8,84		mm
Number of skipped tube			0		

AIR SIDE

Atmospheric Pressure / Altitude	1,01 / 0,00	bar A / m
Volumetric Air Flow	480,0	m ³ /h
Mass Air Flow	683	kg/h
Face Velocity on the Coil	3,29	m/s
Inlet Air Density	1,42	kg/m ³
Inlet Air Temperature	-25,0	°C
Inlet Air Relative Humidity	100,00	%
Inlet Air Specific Humidity	0,40	g/kg AS
Inlet Air Enthalpy	-24,22	kJ / kg
Outlet Air Temperature	-26,2	°C
Outlet Air Relative Humidity	100,00	%
Outlet Air Specific Humidity	0,30	g/kg AS
Outlet Air Enthalpy	-25,56	kJ / kg
Pressure Drop	89	Pa
Partial Exchange Coefficient	79	W/(m ² K)
Fouling Factor	0,000000	(m ² K)/W

REFRIGERANT SIDE

Fluid		R404A
Mass Fluid Flow / Mass velocity	8 / 37	kg/h / kg/(m ² s)
Fluid Velocity (Gaseous Phase / Liquid Phase)	3,16 / 0,03	m/s
Subcooling Degrees	3,0	K
Overheating Degrees	3,0	K
Evaporating Temperature - Middle	-31,0	°C
Condensing Temperature - Middle	30,0	°C
Fluid Pressure Drop	2,968	kPa
Manifold Pressure Drop	0	kPa
Total Pressure Drop Fluid Side	2,968	kPa
Partial Exchange Coefficient	550	W/(m ² K)
Fouling Factor	0,000000	(m ² K)/W

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Date 7.01.2018
Our Offer GS C12 SC1
GS C12 27L.20.1.5X6

DIRECT EXPANSION COIL - 102522_C_G 6T 5NR 270A 5,5P 1NC

Geometry	102522_C_G	Coil Length	270,0	mm	
Nr of Tubes per Row	6	Fin Pitch	5,50	mm	
Nr of Rows	5	Nr of Circuits	1		Tube Shape Circular
Capacity			958		W
Sensible Capacity			506		W
Latent Capacity			453		W
Sensible/Total Capacity Ratio			0,5277		
Quantity of Produced Water			0,65		kg/h
Exchange Surface			1,63		m ²
Global Exchange Coefficient			38		W kg/(m ² kJ)
DHML			15,69		kJ / kg
Fins Material / Tubes Material			Aluminium / Copper		
Fin Thickness			0,1200		mm
Coil Internal Volume			0,5		l
Tubes External Diameter			9,54		mm
Tubes Internal Diameter			8,84		mm
Number of skipped tube			0		

AIR SIDE

Atmospheric Pressure / Altitude	1,01 / 0,00	bar A / m
Volumetric Air Flow	480,0	m ³ /h
Mass Air Flow	596	kg/h
Face Velocity on the Coil	3,29	m/s
Inlet Air Density	1,24	kg/m ³
Inlet Air Temperature	10,0	°C
Inlet Air Relative Humidity	95,00	%
Inlet Air Specific Humidity	7,10	g/kg AS
Inlet Air Enthalpy	28,08	kJ / kg
Outlet Air Temperature	7,0	°C
Outlet Air Relative Humidity	98,87	%
Outlet Air Specific Humidity	6,10	g/kg AS
Outlet Air Enthalpy	22,29	kJ / kg
Pressure Drop	139	Pa
Partial Exchange Coefficient	79	W/(m ² K)
Fouling Factor	0,000000	(m ² K)/W

REFRIGERANT SIDE

Fluid		R404A
Mass Fluid Flow / Mass velocity	27 / 122	kg/h / kg/(m ² s)
Fluid Velocity (Gaseous Phase / Liquid Phase)	4,01 / 0,11	m/s
Subcooling Degrees	3,0	K
Overheating Degrees	3,0	K
Evaporating Temperature - Middle	0,0	°C
Condensing Temperature - Middle	30,0	°C
Fluid Pressure Drop	11,25	kPa
Manifold Pressure Drop	0	kPa
Total Pressure Drop Fluid Side	11,25	kPa
Partial Exchange Coefficient	1470	W/(m ² K)
Fouling Factor	0,000000	(m ² K)/W

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GS C12 27L.20.1.5X6

DIRECT EXPANSION COIL - 102522_C_G 6T 5NR 270A 5,5P 1NC

Geometry	102522_C_G	Coil Length	270,0	mm	
Nr of Tubes per Row	6	Fin Pitch	5,50	mm	
Nr of Rows	5	Nr of Circuits	1		Tube Shape Circular
Capacity			627		W
Sensible Capacity			377		W
Latent Capacity			250		W
Sensible/Total Capacity Ratio			0,6016		
Quantity of Produced Water			0,38		kg/h
Exchange Surface			1,63		m ²
Global Exchange Coefficient			36		W kg/(m ² kJ)
DHML			10,71		kJ / kg
Fins Material / Tubes Material			Aluminium / Copper		
Fin Thickness			0,1200		mm
Coil Internal Volume			0,5		l
Tubes External Diameter			9,54		mm
Tubes Internal Diameter			8,84		mm
Number of skipped tube			0		

AIR SIDE

Atmospheric Pressure / Altitude	1,01 / 0,00	bar A / m
Volumetric Air Flow	480,0	m ³ /h
Mass Air Flow	619	kg/h
Face Velocity on the Coil	3,29	m/s
Inlet Air Density	1,29	kg/m ³
Inlet Air Temperature	0,0	°C
Inlet Air Relative Humidity	100,00	%
Inlet Air Specific Humidity	3,70	g/kg AS
Inlet Air Enthalpy	9,32	kJ / kg
Outlet Air Temperature	-2,2	°C
Outlet Air Relative Humidity	100,00	%
Outlet Air Specific Humidity	3,10	g/kg AS
Outlet Air Enthalpy	5,58	kJ / kg
Pressure Drop	131	Pa
Partial Exchange Coefficient	79	W/(m ² K)
Fouling Factor	0,000000	(m ² K)/W

REFRIGERANT SIDE

Fluid		R404A
Mass Fluid Flow / Mass velocity	18 / 83	kg/h / kg/(m ² s)
Fluid Velocity (Gaseous Phase / Liquid Phase)	3,53 / 0,07	m/s
Subcooling Degrees	3,0	K
Overheating Degrees	3,0	K
Evaporating Temperature - Middle	-8,0	°C
Condensing Temperature - Middle	30,0	°C
Fluid Pressure Drop	6,637294	kPa
Manifold Pressure Drop	0	kPa
Total Pressure Drop Fluid Side	6,637294	kPa
Partial Exchange Coefficient	1192	W/(m ² K)
Fouling Factor	0,000000	(m ² K)/W

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Date 7.01.2018
Our Offer GS C12 SC3
GS C12 27L.20.1.5X6

DIRECT EXPANSION COIL - 102522_C_G 6T 5NR 270A 5,5P 1NC

Geometry	102522_C_G	Coil Length	270,0	mm	
Nr of Tubes per Row	6	Fin Pitch	5,50	mm	
Nr of Rows	5	Nr of Circuits	1		Tube Shape Circular
Capacity			396		W
Sensible Capacity			343		W
Latent Capacity			53		W
Sensible/Total Capacity Ratio			0,8673		
Quantity of Produced Water			0,08		kg/h
Exchange Surface			1,63		m ²
Global Exchange Coefficient			36		W kg/(m ² kJ)
DHML			6,83		kJ / kg
Fins Material / Tubes Material			Aluminium / Copper		
Fin Thickness			0,1200		mm
Coil Internal Volume			0,5		l
Tubes External Diameter			9,54		mm
Tubes Internal Diameter			8,84		mm
Number of skipped tube			0		

AIR SIDE

Atmospheric Pressure / Altitude	1,01 / 0,00	bar A / m
Volumetric Air Flow	480,0	m ³ /h
Mass Air Flow	664	kg/h
Face Velocity on the Coil	3,29	m/s
Inlet Air Density	1,38	kg/m ³
Inlet Air Temperature	-18,0	°C
Inlet Air Relative Humidity	100,00	%
Inlet Air Specific Humidity	0,80	g/kg AS
Inlet Air Enthalpy	-16,25	kJ / kg
Outlet Air Temperature	-19,8	°C
Outlet Air Relative Humidity	100,00	%
Outlet Air Specific Humidity	0,60	g/kg AS
Outlet Air Enthalpy	-18,41	kJ / kg
Pressure Drop	110	Pa
Partial Exchange Coefficient	79	W/(m ² K)
Fouling Factor	0,000000	(m ² K)/W

REFRIGERANT SIDE

Fluid		R404A
Mass Fluid Flow / Mass velocity	12 / 56	kg/h / kg/(m ² s)
Fluid Velocity (Gaseous Phase / Liquid Phase)	4,19 / 0,04	m/s
Subcooling Degrees	3,0	K
Overheating Degrees	3,0	K
Evaporating Temperature - Middle	-25,0	°C
Condensing Temperature - Middle	30,0	°C
Fluid Pressure Drop	5,89913	kPa
Manifold Pressure Drop	0	kPa
Total Pressure Drop Fluid Side	5,89913	kPa
Partial Exchange Coefficient	841	W/(m ² K)
Fouling Factor	0,000000	(m ² K)/W

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Geometry	102522_C_G	Coil Length	270,0	mm	
Nr of Tubes per Row	6	Fin Pitch	5,50	mm	
Nr of Rows	5	Nr of Circuits	1		Tube Shape Circular
Capacity			318		W
Sensible Capacity			294		W
Latent Capacity			24		W
Sensible/Total Capacity Ratio			0,9234		
Quantity of Produced Water			0,04		kg/h
Exchange Surface			1,63		m ²
Global Exchange Coefficient			35		W kg/(m ² kJ)
DHML			5,59		kJ / kg
Fins Material / Tubes Material			Aluminium / Copper		
Fin Thickness			0,1200		mm
Coil Internal Volume			0,5		l
Tubes External Diameter			9,54		mm
Tubes Internal Diameter			8,84		mm
Number of skipped tube			0		

AIR SIDE

Atmospheric Pressure / Altitude	1,01 / 0,00	bar A / m
Volumetric Air Flow	480,0	m ³ /h
Mass Air Flow	683	kg/h
Face Velocity on the Coil	3,29	m/s
Inlet Air Density	1,42	kg/m ³
Inlet Air Temperature	-25,0	°C
Inlet Air Relative Humidity	100,00	%
Inlet Air Specific Humidity	0,40	g/kg AS
Inlet Air Enthalpy	-24,22	kJ / kg
Outlet Air Temperature	-26,5	°C
Outlet Air Relative Humidity	100,00	%
Outlet Air Specific Humidity	0,30	g/kg AS
Outlet Air Enthalpy	-25,90	kJ / kg
Pressure Drop	108	Pa
Partial Exchange Coefficient	79	W/(m ² K)
Fouling Factor	0,000000	(m ² K)/W

REFRIGERANT SIDE

Fluid		R404A
Mass Fluid Flow / Mass velocity	10 / 47	kg/h / kg/(m ² s)
Fluid Velocity (Gaseous Phase / Liquid Phase)	4,18 / 0,03	m/s
Subcooling Degrees	3,0	K
Overheating Degrees	3,0	K
Evaporating Temperature - Middle	-31,0	°C
Condensing Temperature - Middle	30,0	°C
Fluid Pressure Drop	5,28582	kPa
Manifold Pressure Drop	0	kPa
Total Pressure Drop Fluid Side	5,28582	kPa
Partial Exchange Coefficient	699	W/(m ² K)
Fouling Factor	0,000000	(m ² K)/W

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Date 7.01.2018
Our Offer GS C13 SC1
GS C13 27L.20.1.6X6

DIRECT EXPANSION COIL - 102522_C_G 6T 6NR 270A 5,5P 1NC

Geometry	102522_C_G	Coil Length	270,0	mm	
Nr of Tubes per Row	6	Fin Pitch	5,50	mm	
Nr of Rows	6	Nr of Circuits	1		Tube Shape Circular
Capacity			1125		W
Sensible Capacity			593		W
Latent Capacity			531		W
Sensible/Total Capacity Ratio			0,5274		
Quantity of Produced Water			0,76		kg/h
Exchange Surface			1,95		m ²
Global Exchange Coefficient			38		W kg/(m ² kJ)
DHML			15,11		kJ / kg
Fins Material / Tubes Material			Aluminium / Copper		
Fin Thickness			0,1200		mm
Coil Internal Volume			0,6		l
Tubes External Diameter			9,54		mm
Tubes Internal Diameter			8,84		mm
Number of skipped tube			0		

AIR SIDE

Atmospheric Pressure / Altitude	1,01 / 0,00	bar A / m
Volumetric Air Flow	480,0	m ³ /h
Mass Air Flow	596	kg/h
Face Velocity on the Coil	3,29	m/s
Inlet Air Density	1,24	kg/m ³
Inlet Air Temperature	10,0	°C
Inlet Air Relative Humidity	95,00	%
Inlet Air Specific Humidity	7,10	g/kg AS
Inlet Air Enthalpy	28,08	kJ / kg
Outlet Air Temperature	6,5	°C
Outlet Air Relative Humidity	99,27	%
Outlet Air Specific Humidity	5,90	g/kg AS
Outlet Air Enthalpy	21,28	kJ / kg
Pressure Drop	166	Pa
Partial Exchange Coefficient	79	W/(m ² K)
Fouling Factor	0,000000	(m ² K)/W

REFRIGERANT SIDE

Fluid		R404A
Mass Fluid Flow / Mass velocity	32 / 144	kg/h / kg/(m ² s)
Fluid Velocity (Gaseous Phase / Liquid Phase)	4,71 / 0,12	m/s
Subcooling Degrees	3,0	K
Overheating Degrees	3,0	K
Evaporating Temperature - Middle	0,0	°C
Condensing Temperature - Middle	30,0	°C
Fluid Pressure Drop	17,27	kPa
Manifold Pressure Drop	0	kPa
Total Pressure Drop Fluid Side	17,27	kPa
Partial Exchange Coefficient	1649	W/(m ² K)
Fouling Factor	0,000000	(m ² K)/W

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Date 7.01.2018
Our Offer GS C13 SC2
GS C13 27L.20.1.6X6

DIRECT EXPANSION COIL - 102522_C_G 6T 6NR 270A 5,5P 1NC

Geometry	102522_C_G	Coil Length	270,0	mm	
Nr of Tubes per Row	6	Fin Pitch	5,50	mm	
Nr of Rows	6	Nr of Circuits	1		Tube Shape Circular
Capacity			712		W
Sensible Capacity			462		W
Latent Capacity			249		W
Sensible/Total Capacity Ratio			0,6495		
Quantity of Produced Water			0,36		kg/h
Exchange Surface			1,95		m ²
Global Exchange Coefficient			36		W kg/(m ² kJ)
DHML			10,00		kJ / kg
Fins Material / Tubes Material			Aluminium / Copper		
Fin Thickness			0,1200		mm
Coil Internal Volume			0,6		l
Tubes External Diameter			9,54		mm
Tubes Internal Diameter			8,84		mm
Number of skipped tube			0		

AIR SIDE

Atmospheric Pressure / Altitude	1,01 / 0,00	bar A / m
Volumetric Air Flow	480,0	m ³ /h
Mass Air Flow	619	kg/h
Face Velocity on the Coil	3,29	m/s
Inlet Air Density	1,29	kg/m ³
Inlet Air Temperature	0,0	°C
Inlet Air Relative Humidity	95,00	%
Inlet Air Specific Humidity	3,50	g/kg AS
Inlet Air Enthalpy	8,85	kJ / kg
Outlet Air Temperature	-2,7	°C
Outlet Air Relative Humidity	99,09	%
Outlet Air Specific Humidity	3,00	g/kg AS
Outlet Air Enthalpy	4,71	kJ / kg
Pressure Drop	150	Pa
Partial Exchange Coefficient	79	W/(m ² K)
Fouling Factor	0,000000	(m ² K)/W

REFRIGERANT SIDE

Fluid		R404A
Mass Fluid Flow / Mass velocity	21 / 94	kg/h / kg/(m ² s)
Fluid Velocity (Gaseous Phase / Liquid Phase)	4,00 / 0,08	m/s
Subcooling Degrees	3,0	K
Overheating Degrees	3,0	K
Evaporating Temperature - Middle	-8,0	°C
Condensing Temperature - Middle	30,0	°C
Fluid Pressure Drop	9,68	kPa
Manifold Pressure Drop	0	kPa
Total Pressure Drop Fluid Side	9,68	kPa
Partial Exchange Coefficient	1299	W/(m ² K)
Fouling Factor	0,000000	(m ² K)/W

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Customer	GURCAN	Date	7.01.2018
To the k. a. of	IMALAT	Our Offer	GS C13 SC3
Your Reference		GS C13 27L.20.1.6X6	

DIRECT EXPANSION COIL - 102522_C_G 6T 6NR 270A 5,5P 1NC

Geometry	102522_C_G	Coil Length	270,0	mm	
Nr of Tubes per Row	6	Fin Pitch	5,50	mm	
Nr of Rows	6	Nr of Circuits	1		Tube Shape Circular
Capacity			473		W
Sensible Capacity			421		W
Latent Capacity			52		W
Sensible/Total Capacity Ratio			0,8893		
Quantity of Produced Water			0,08		kg/h
Exchange Surface			1,95		m ²
Global Exchange Coefficient			37		W kg/(m ² kJ)
DHML			6,51		kJ / kg
Fins Material / Tubes Material			Aluminium / Copper		
Fin Thickness			0,1200		mm
Coil Internal Volume			0,6		l
Tubes External Diameter			9,54		mm
Tubes Internal Diameter			8,84		mm
Number of skipped tube			0		

AIR SIDE

Atmospheric Pressure / Altitude	1,01 / 0,00	bar A / m
Volumetric Air Flow	480,0	m ³ /h
Mass Air Flow	664	kg/h
Face Velocity on the Coil	3,29	m/s
Inlet Air Density	1,38	kg/m ³
Inlet Air Temperature	-18,0	°C
Inlet Air Relative Humidity	95,00	%
Inlet Air Specific Humidity	0,70	g/kg AS
Inlet Air Enthalpy	-16,34	kJ / kg
Outlet Air Temperature	-20,3	°C
Outlet Air Relative Humidity	99,04	%
Outlet Air Specific Humidity	0,60	g/kg AS
Outlet Air Enthalpy	-18,91	kJ / kg
Pressure Drop	130	Pa
Partial Exchange Coefficient	79	W/(m ² K)
Fouling Factor	0,000000	(m ² K)/W

REFRIGERANT SIDE

Fluid		R404A
Mass Fluid Flow / Mass velocity	15 / 67	kg/h / kg/(m ² s)
Fluid Velocity (Gaseous Phase / Liquid Phase)	5,22 / 0,05	m/s
Subcooling Degrees	3,0	K
Overheating Degrees	3,0	K
Evaporating Temperature - Middle	-25,0	°C
Condensing Temperature - Middle	30,0	°C
Fluid Pressure Drop	9,34598	kPa
Manifold Pressure Drop	0	kPa
Total Pressure Drop Fluid Side	9,34598	kPa
Partial Exchange Coefficient	1074	W/(m ² K)
Fouling Factor	0,000000	(m ² K)/W

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Customer GURCAN**To the k. a. of** IMALAT**Your Reference****Date** 7.01.2018**Our Offer** GS C13 SC4**GS C13 27L.20.1.6X6****DIRECT EXPANSION COIL - 102522_C_G 6T 6NR 270A 5,5P 1NC**

Geometry	102522_C_G	Coil Length	270,0	mm	
Nr of Tubes per Row	6	Fin Pitch	5,50	mm	
Nr of Rows	6	Nr of Circuits	1		Tube Shape Circular
Capacity			381		W
Sensible Capacity			352		W
Latent Capacity			29		W
Sensible/Total Capacity Ratio			0,9244		
Quantity of Produced Water			0,04		kg/h
Exchange Surface			1,95		m ²
Global Exchange Coefficient			36		W kg/(m ² kJ)
DHML			5,40		kJ / kg
Fins Material / Tubes Material			Aluminium / Copper		
Fin Thickness			0,1200		mm
Coil Internal Volume			0,6		l
Tubes External Diameter			9,54		mm
Tubes Internal Diameter			8,84		mm
Number of skipped tube			0		

AIR SIDE

Atmospheric Pressure / Altitude	1,01 / 0,00	bar A / m
Volumetric Air Flow	480,0	m ³ /h
Mass Air Flow	683	kg/h
Face Velocity on the Coil	3,29	m/s
Inlet Air Density	1,42	kg/m ³
Inlet Air Temperature	-25,0	°C
Inlet Air Relative Humidity	100,00	%
Inlet Air Specific Humidity	0,40	g/kg AS
Inlet Air Enthalpy	-24,22	kJ / kg
Outlet Air Temperature	-26,8	°C
Outlet Air Relative Humidity	100,00	%
Outlet Air Specific Humidity	0,30	g/kg AS
Outlet Air Enthalpy	-26,24	kJ / kg
Pressure Drop	130	Pa
Partial Exchange Coefficient	79	W/(m ² K)
Fouling Factor	0,000000	(m ² K)/W

REFRIGERANT SIDE

Fluid		R404A
Mass Fluid Flow / Mass velocity	12 / 56	kg/h / kg/(m ² s)
Fluid Velocity (Gaseous Phase / Liquid Phase)	5,30 / 0,04	m/s
Subcooling Degrees	3,0	K
Overheating Degrees	3,0	K
Evaporating Temperature - Middle	-31,0	°C
Condensing Temperature - Middle	30,0	°C
Fluid Pressure Drop	8,40688	kPa
Manifold Pressure Drop	0	kPa
Total Pressure Drop Fluid Side	8,40688	kPa
Partial Exchange Coefficient	887	W/(m ² K)
Fouling Factor	0,000000	(m ² K)/W

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Customer GURCAN**To the k. a. of** IMALAT**Your Reference****Date** 7.01.2018**Our Offer** GS C14 SC1**GS C14 42L.20.1.4X6****DIRECT EXPANSION COIL - 102522_C_G 6T 4NR 420A 5,5P 1NC**

Geometry	102522_C_G	Coil Length	420,0	mm	
Nr of Tubes per Row	6	Fin Pitch	5,50	mm	
Nr of Rows	4	Nr of Circuits	1		Tube Shape Circular
Capacity			1022		W
Sensible Capacity			539		W
Latent Capacity			483		W
Sensible/Total Capacity Ratio			0,5274		
Quantity of Produced Water			0,69		kg/h
Exchange Surface			2,02		m ²
Global Exchange Coefficient			33		W kg/(m ² kJ)
DHML			15,47		kJ / kg
Fins Material / Tubes Material			Aluminium / Copper		
Fin Thickness			0,1200		mm
Coil Internal Volume			0,6		l
Tubes External Diameter			9,54		mm
Tubes Internal Diameter			8,84		mm
Number of skipped tube			0		

AIR SIDE

Atmospheric Pressure / Altitude	1,01 / 0,00	bar A / m
Volumetric Air Flow	480,0	m ³ /h
Mass Air Flow	596	kg/h
Face Velocity on the Coil	2,12	m/s
Inlet Air Density	1,24	kg/m ³
Inlet Air Temperature	10,0	°C
Inlet Air Relative Humidity	95,00	%
Inlet Air Specific Humidity	7,10	g/kg AS
Inlet Air Enthalpy	28,08	kJ / kg
Outlet Air Temperature	6,8	°C
Outlet Air Relative Humidity	99,02	%
Outlet Air Specific Humidity	6,00	g/kg AS
Outlet Air Enthalpy	21,90	kJ / kg
Pressure Drop	53	Pa
Partial Exchange Coefficient	60	W/(m ² K)
Fouling Factor	0,000000	(m ² K)/W

REFRIGERANT SIDE

Fluid		R404A
Mass Fluid Flow / Mass velocity	29 / 130	kg/h / kg/(m ² s)
Fluid Velocity (Gaseous Phase / Liquid Phase)	4,28 / 0,11	m/s
Subcooling Degrees	3,0	K
Overheating Degrees	3,0	K
Evaporating Temperature - Middle	0,0	°C
Condensing Temperature - Middle	30,0	°C
Fluid Pressure Drop	12,73	kPa
Manifold Pressure Drop	0	kPa
Total Pressure Drop Fluid Side	12,73	kPa
Partial Exchange Coefficient	1539	W/(m ² K)
Fouling Factor	0,000000	(m ² K)/W

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Customer GURCAN**To the k. a. of** IMALAT**Your Reference****Date** 7.01.2018**Our Offer** GS C14 SC2**GS C14 42L.20.1.4X6****DIRECT EXPANSION COIL - 102522_C_G 6T 4NR 420A 5,5P 1NC**

Geometry	102522_C_G	Coil Length	420,0	mm	
Nr of Tubes per Row	6	Fin Pitch	5,50	mm	
Nr of Rows	4	Nr of Circuits	1		Tube Shape Circular
Capacity			648		W
Sensible Capacity			421		W
Latent Capacity			227		W
Sensible/Total Capacity Ratio			0,6495		
Quantity of Produced Water			0,33		kg/h
Exchange Surface			2,02		m ²
Global Exchange Coefficient			31		W kg/(m ² kJ)
DHML			10,22		kJ / kg
Fins Material / Tubes Material			Aluminium / Copper		
Fin Thickness			0,1200		mm
Coil Internal Volume			0,6		l
Tubes External Diameter			9,54		mm
Tubes Internal Diameter			8,84		mm
Number of skipped tube			0		

AIR SIDE

Atmospheric Pressure / Altitude	1,01 / 0,00	bar A / m
Volumetric Air Flow	480,0	m ³ /h
Mass Air Flow	619	kg/h
Face Velocity on the Coil	2,12	m/s
Inlet Air Density	1,29	kg/m ³
Inlet Air Temperature	0,0	°C
Inlet Air Relative Humidity	95,00	%
Inlet Air Specific Humidity	3,50	g/kg AS
Inlet Air Enthalpy	8,85	kJ / kg
Outlet Air Temperature	-2,4	°C
Outlet Air Relative Humidity	98,83	%
Outlet Air Specific Humidity	3,00	g/kg AS
Outlet Air Enthalpy	5,08	kJ / kg
Pressure Drop	47	Pa
Partial Exchange Coefficient	60	W/(m ² K)
Fouling Factor	0,000000	(m ² K)/W

REFRIGERANT SIDE

Fluid		R404A
Mass Fluid Flow / Mass velocity	19 / 85	kg/h / kg/(m ² s)
Fluid Velocity (Gaseous Phase / Liquid Phase)	3,64 / 0,07	m/s
Subcooling Degrees	3,0	K
Overheating Degrees	3,0	K
Evaporating Temperature - Middle	-8,0	°C
Condensing Temperature - Middle	30,0	°C
Fluid Pressure Drop	7,04759	kPa
Manifold Pressure Drop	0	kPa
Total Pressure Drop Fluid Side	7,04759	kPa
Partial Exchange Coefficient	1218	W/(m ² K)
Fouling Factor	0,000000	(m ² K)/W

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Date 7.01.2018
Our Offer GS C14 SC3
GS C14 42L.20.1.4X6

DIRECT EXPANSION COIL - 102522_C_G 6T 4NR 420A 5,5P 1NC

Geometry	102522_C_G	Coil Length	420,0	mm	
Nr of Tubes per Row	6	Fin Pitch	5,50	mm	
Nr of Rows	4	Nr of Circuits	1		Tube Shape Circular
Capacity			422		W
Sensible Capacity			375		W
Latent Capacity			47		W
Sensible/Total Capacity Ratio			0,8894		
Quantity of Produced Water			0,07		kg/h
Exchange Surface			2,02		m ²
Global Exchange Coefficient			31		W kg/(m ² kJ)
DHML			6,67		kJ / kg
Fins Material / Tubes Material			Aluminium / Copper		
Fin Thickness			0,1200		mm
Coil Internal Volume			0,6		l
Tubes External Diameter			9,54		mm
Tubes Internal Diameter			8,84		mm
Number of skipped tube			0		

AIR SIDE

Atmospheric Pressure / Altitude	1,01 / 0,00	bar A / m
Volumetric Air Flow	480,0	m ³ /h
Mass Air Flow	664	kg/h
Face Velocity on the Coil	2,12	m/s
Inlet Air Density	1,38	kg/m ³
Inlet Air Temperature	-18,0	°C
Inlet Air Relative Humidity	95,00	%
Inlet Air Specific Humidity	0,70	g/kg AS
Inlet Air Enthalpy	-16,34	kJ / kg
Outlet Air Temperature	-20,0	°C
Outlet Air Relative Humidity	98,73	%
Outlet Air Specific Humidity	0,60	g/kg AS
Outlet Air Enthalpy	-18,63	kJ / kg
Pressure Drop	41	Pa
Partial Exchange Coefficient	60	W/(m ² K)
Fouling Factor	0,000000	(m ² K)/W

REFRIGERANT SIDE

Fluid		R404A
Mass Fluid Flow / Mass velocity	13 / 60	kg/h / kg/(m ² s)
Fluid Velocity (Gaseous Phase / Liquid Phase)	4,59 / 0,05	m/s
Subcooling Degrees	3,0	K
Overheating Degrees	3,0	K
Evaporating Temperature - Middle	-25,0	°C
Condensing Temperature - Middle	30,0	°C
Fluid Pressure Drop	6,57335	kPa
Manifold Pressure Drop	0	kPa
Total Pressure Drop Fluid Side	6,57335	kPa
Partial Exchange Coefficient	928	W/(m ² K)
Fouling Factor	0,000000	(m ² K)/W

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Customer GURCAN**To the k. a. of** IMALAT**Your Reference****Date** 7.01.2018**Our Offer** GS C14 SC4**GS C14 42L.20.1.4X6****DIRECT EXPANSION COIL - 102522_C_G 6T 4NR 420A 5,5P 1NC**

Geometry	102522_C_G	Coil Length	420,0	mm		
Nr of Tubes per Row	6	Fin Pitch	5,50	mm		
Nr of Rows	4	Nr of Circuits	1		Tube Shape	Circular
Capacity			343		W	
Sensible Capacity			317		W	
Latent Capacity			26		W	
Sensible/Total Capacity Ratio			0,9244			
Quantity of Produced Water			0,04		kg/h	
Exchange Surface			2,02		m ²	
Global Exchange Coefficient			31		W kg/(m ² kJ)	
DHML			5,51		kJ / kg	
Fins Material / Tubes Material			Aluminium / Copper			
Fin Thickness			0,1200		mm	
Coil Internal Volume			0,6		l	
Tubes External Diameter			9,54		mm	
Tubes Internal Diameter			8,84		mm	
Number of skipped tube			0			

AIR SIDE

Atmospheric Pressure / Altitude	1,01 / 0,00	bar A / m
Volumetric Air Flow	480,0	m ³ /h
Mass Air Flow	683	kg/h
Face Velocity on the Coil	2,12	m/s
Inlet Air Density	1,42	kg/m ³
Inlet Air Temperature	-25,0	°C
Inlet Air Relative Humidity	100,00	%
Inlet Air Specific Humidity	0,40	g/kg AS
Inlet Air Enthalpy	-24,22	kJ / kg
Outlet Air Temperature	-26,7	°C
Outlet Air Relative Humidity	100,00	%
Outlet Air Specific Humidity	0,30	g/kg AS
Outlet Air Enthalpy	-26,04	kJ / kg
Pressure Drop	41	Pa
Partial Exchange Coefficient	60	W/(m ² K)
Fouling Factor	0,000000	(m ² K)/W

REFRIGERANT SIDE

Fluid		R404A
Mass Fluid Flow / Mass velocity	11 / 50	kg/h / kg/(m ² s)
Fluid Velocity (Gaseous Phase / Liquid Phase)	4,70 / 0,04	m/s
Subcooling Degrees	3,0	K
Overheating Degrees	3,0	K
Evaporating Temperature - Middle	-31,0	°C
Condensing Temperature - Middle	30,0	°C
Fluid Pressure Drop	6,021055	kPa
Manifold Pressure Drop	0	kPa
Total Pressure Drop Fluid Side	6,021055	kPa
Partial Exchange Coefficient	784	W/(m ² K)
Fouling Factor	0,000000	(m ² K)/W