



SIRAC “APEX” - High Temperature Heat Pumps (R134a units) SPECIFICATION SHEET:

Model	LSQ03RG	LSQ05RG	LSQ10RG	LSQ20RG	
Outlet Water Max. Temp(°C)	80°C				
Heating Capacity(KW) *	7	15,5	31	62	
Rated Power Input(KW)	1,75	4,68	9,3	18,7	
Power Supply (V/PH/HZ)	240/1/50	400/3/50			
Compressor Type	Invotech Scroll				
Compressor Quantity	1	1	2	2	
Refrigerant Charge (g)					
Starting Current (Amp)	45	35	44	130	
Running Current (Amp)	12	9	2x9	2x13	
Cabinet Material	Galvanized / 304 Stainless Steel				
Air Discharge	Vertical				
Fan Motor Watts	90	250	350x2	750x2	
Air Flow (m3/h)	3600	5600	6500x2	1200 x 2	
Expansion Device	Electronic Expansion Valve				
Defrosting Device	Demand - 4 Way Valve				
Refrigerant Type	R134a				
Approx. Water Output (liters/h)	250	420	1080	1700	
Noise Level dB(A)	51	54	58	63	
Pipe size (inch)	1"			2 x 1.25"	
Heat Exchanger Type	Tube in Tube				
Dimensions (mm)	Length	750	750	1420	2010
	Width	690	690	725	1118
	Height	845	1060	1365	1797
Operating weight (kg)	115	180	320	630	

Note:

* Heating capacities are rated at: air temperature 20°C, water heated from 20°C to 75°C

SIRAC "CORE" - Medium Temperature Heat Pumps - 60°C (R410a units)

SPECIFICATION SHEET:



Model	LSQ02RCF	LSQ03RF	LSQ05RF	LSQ06RF	LSQ08RF	LSQ10RF	LSQ15RF	LSQ20RF	LSQ25RF	LSQ30RF	
Outlet Water Rated Temp. (°C)	55										
Outlet Water Max. Temp. (°C)	60										
Heating Capacity (KW)	7,7	11,5	19	23	30,5	38	46	75	90	110	
Rated Power Input (KW)	1,7	2,8	4,6	5,6	7,5	9,3	11,2	17,4	19,9	25	
Power Supply (V/PH/HZ)	230/1/50			400/3/50							
Compressor Type	Hitachi	Invotech Scroll					Emerson Copeland EVI Scroll				
Compressor Quantity	1	1	1	1	2	2	2	2	2	2	
Starting Current (Amp)	28	40	35	50	38	44	50	78	105	145	
Running Current (Amp)	8,2	12	9	12	14	18	24	36	44	48	
Cabinet Material	Powder Coated Galvanized Steel Cabinet - (304 Stainless Steel option available)										
Air Discharge	Horizontal	Vertical									
Fan Motor Watt	40	90	250	250	250x2	250x2	350x2	750x2	750x2	750 x2	
Air Flow (m3/h)	2200	3600	5600	6500	5600x2	5600x2	6500x2	12000x2	12000x2	14000x2	
Expansion Device	Saginomya Electronic Expansion Valve										
Defrosting Device	4-way Reversing Valve										
Refrigerant Type	R410a										
Approx. Water Output (liters/h)	190	280	468	567	751	936	1133	1847	2143	2709	
Nominal water flow (l/s)	0,36	0,55	0,90	1,09	1,46	1,82	2,20	3,58	4,16	5,26	
Nominal Pressure drop (kPa)	20	30	45	50	53	55	60	65	70	70	
Noise Level dB(A)	49	51	53	54	57	58	58	63	63	67	
Pipe size (inch)	3/4"	1"		1"	1.25"			2 x 1.25"		4" flanged	
Heat Exchanger Type	Copper Tube in Tube										
Dimensions (mm)	Length	990	750	750	800	1484	1484	1420	2010	2010	2100
	Width	450	690	690	750	730	730	725	1118	1118	1118
	Height	560	845	1060	1080	1060	1060	1365	1797	1904	1920
Operating weight (kg)	79	115	150	175	255	280	360	630	780	850	

Note:

Heating capacities are rated at: air temperature 20°C, water heated from 20°C to 55°C



SIRAC "SPACE" - Low Ambient Heat Pump (R404a)

SPECIFICATION SHEET:

Model		LSQ03RC	LSQ04RC	LSQ05RC	LSQ06RC	LSQ10RC
Outlet Water Rated Temp(°C)		35				
Outlet Water Max. Temp(°C)		58				
A7/W35 EN14511	Heating Capacity (KW)	10,3	11,9	15,9	18,5	31,5
	COP	4,2	4,4	4	3,9	3,9
A2/W35 EN14511	Heating Capacity (KW)	8,1	10,3	13,2	15,9	25,5
	COP	3,4	3,9	3,4	3,5	3,4
A-2/W35 EN14511	Heating Capacity (KW)	7,1	8,6	11,9	13,6	22,6
	COP	3	3,3	3,1	3	3
A-7/W35 EN14511	Heating Capacity (KW)	6,2	7,5	10	12,2	19
	COP	2,7	2,9	2,7	2,8	2,6
Power Supply (V/PH/HZ)		230/1/50		400/3/50		
Compressor Type		Scroll				
Compressor Qty		1				2
Gas Flow Restriction		Electronic Expansion Valve (EEV)				
Defrosting Device		4-way Reversing Valve				
Heat Exchanger Type		316 Stainless Steel Brazed Plate				
Noise db(A)		52	53	55	55	58
Fan Motor Speeds		Two				
Refrigerant Type		R404A				
Refrigerant Charge (kg)		1,8	2	3,2	4	6,4
Ambient Air Range		20°C to -35°C				
Pipe size (inch)		1"			1.25"	
Dimensions(mm)	Length	1080		1130		1430
	Width	470		500		600
	Height	960		1050		1260
Air Discharge		Horizontal				

* NOTE: Larger capacity models available on request

SIRAC "TITANIUM" - Pool Heat Pump R407c

SPECIFICATION SHEET:



Model	LSQ015RP	LSQ02RP	LSQ025RP	LSQ03RP	LSQ04RP	LSQ05RP	LSQ08RP	LSQ10RP	LSQ15RP	
Outlet Water Rated	27									
Outlet Water Max	40									
Heating Capacity (kW) @20°C	6,3	8,7	11	13,4	18	23	36	45	55	
Rated Power Input (kW) @20°C	1,32	1,82	2,1	2,8	3,75	4,65	7,5	9,2	12	
COP	4,77	4,78	5,24	4,79	4,80	4,95	4,80	4,89	4,58	
Power Supply(U/Ph/Hz)	230/1/50				400/3/50					
Compressor Type	Rotary			Hitachi Scroll						
Compressor Quantity	1	1	1	1	1	1	2	2	2	
Refrigerant Type	R407C									
Running Current Amp	6	8,2	10,3	12,8	7.5x3	8.7x3	(7.5x3)x2	(8.7x3) x2	(12x3) x2	
Circuit Breaker Amp	20	25	25	30	20x3	25x3	35x3	40x3	40x3	
Refrigerant Flow Control	Electronic Expansion Valve									
Defrosting Device	4-way Reversing Valve									
Pipe Size	50 mm (2")									
Unit Dimensions (mm)	Length	1100	1100	1180	750	750	750	148	1484	1420
	Width	440	440	490	690	690	690	730	730	715
	Height	560	560	660	870	1060	1060	1060	1060	1365
Ambient Air Range	-15°C to + 45°C									
Air Discharge	Horizontal			Vertical						
Weight	60	70	90	115	140	150	260	280	360	