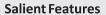


DUOCHILL Series

Dual Temperature Chillers

Reynold pioneers the concept of customizing equipment as per the specific process needs, which satiates the dual purpose; helping users to produce desired results from the processes while maintaining the lowest life cycle costs of the equipment.

in mind the cooling requirements of the processes where the required temperatures of the fluid are varied, at different utility points. It is actually fusing the features of two differently set chillers into one, thereby saving largely on the capital and running costs of the chillers, utilizing lesser footprint area as well as being able to maintain the total need through just one set of auxiliary equipment instead of more.



Two separate water circuits at varied temperatures, +6 to +22 °C, set as per the specific need

Semi-hermetic Screw Compressors with step-less capacity control, adjusting automatically as per the process load, maximizing efficiency

CFC-Free, environment friendly refrigerant

Electronic Expansion Valves for precise temperature control, for increased efficiency

Wired as well as wireless connectivity for remote operation and data logging















Designed in accordance to the guidelines of AHRI and European Standards, exceed ASHRAE 90.1 and meet ECBC norms as stipulated by BEE

Stepless Capacity Control precisely controlled as per the actual load

Electronic Expansion Valve for precise refrigerant flow, increasing system efficiency

Specially designed Shell & Tube type evaporators — Designed as per ASME Section-VIII division-I — for ruggedness and longer life

Air-cooled condensers – with low FPI-count, high gauge coated fins, pneumatically tested at high pressure – matched with other system specifications, making the Chillers ready for operating at upto 52°C ambient temperatures

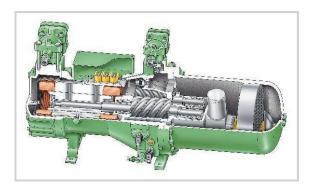
Economizer and other such operations standard to the systems for elevated efficiencies

Low noise, axial-flow, discharge pressure controlled fans, for power saving during off-peak ambient conditions

Lowest possible noise levels with the option of custombuilt Acoustic Enclosure for the compressor or complete Chiller

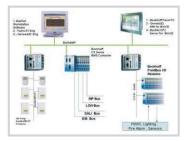
BMS compatibility with MODBUS/BACnet/SCADA, option of Dynamic Data-logging with remote monitoring

Least wear and break-down time, longer economical operation









DUOCHILL Series Chillers are inspected in our latest Performance Analyzing Laboratory to authenticate different parameters of the equipment, like capacity output, power consumption, performance, COP, electrical load fluctuations and other heat load conditions.

Real-time analysis is achieved by simulating ambient, electrical and other conditions in the Environmental Chamber.



ested Equip	pment						CII	mer	rem)IIIIa	nce i	nspe	CHOI				-				-									\perp
Refrigerant		R134A															Term. eff.	Elec. eff	Stab COP	Accept Stab	Auto Trig									
-																	0.93	1.00	2.78	0.02	0.00									Ι
/lin	No of Scans							2.0							3.0	44	55	0.1	1.0		1.8									
Max	1363							7.0							10.0	120	75	1000	4.0		8									1
								4-7							3-6		58-78		0.8 - 7.	0	1.8 - 8.6)								
		Evap. Se	c.	Low Pres	s. Ref				Cond. Se	C.	High Pres	ssure Re	f.				Compre	essor					Electrica							t
lean	a man Depretation	27.8	25.7	3.61	13.0	0.0	20.8	7.8	12.5	31.7	11,46	47.2		26.2	21.0	66.3	66.5	17,4	5.43	93.9	7,46	130.3	33.0	33.8	32.7	1.00	236.6	235.2	236.2	
lax		28.1	26.1	4.70	20.0	0.0	21.8	21.5	12.8	34.7	13.79	54.7		29.4	28.4	73.2	115.2	29.2	7.56	146.5	9.68	207.5	50.4	51.6	50.1	1.00	242.5	242.0	242.3	
1in		27.3	25.2	1.78	-1.3	0.0	20.1	0.2	12.2	28.5	7.11	31.9		21.3	10.6	57.2	21.1	0.0	4.80	0.0	6.84	0.0	0.0	0.0	0.0	1.00	234.8	234.3	234.3	
Date	Time	SecC Evap in (°C)	SecC Evap out (°C)			Ref. Evap. out (°C)	Ref Comp in (°C)	Super heat (K)	SecW Cond in (°C)	SecW Cond out (°C)	Ref High press. (Bar(g))	Ref Cond Mid point (°C)	Ref. After reciever (°C)	Ref Exp. Valve in (°C)	Sub cool total (K)	Ref Comp cut (°C)	Comp Isen. eff** (%)	Power input Comp. (kW)	COP	Cap. Cool (kW)	COP	Cap. Heat (kW)	Comp1 Amps L1 (A)	Comp1 Amps L2 (A)	Comp1 Amps L3 (A)	Comp1 Power Factor	Volt L1 (V)	Volt L2 (V)	Volt L3 (V)	
2010-01-12	12:06:17	27.8	25.2	3.03	9.3	0.0	21.8	12.5	12.2	34.4	13.03	52.6	0.0	29.4	23.2	72.2	80.2	28.9	5.06	146.5	7.17	207.5	50.4	51.4	50.1	1.00	236.0	235.4	235.6	
2010-01-12	12:05:47	28.0	25.3	3.63	13.4	0.0	21.6	8.2	12.2	34.6	12.86	52.1	0.0	29.1	23.0	71.9	65.7	21.5	4.80	103.2	6.84	147.0	41.5	42.1	41.2	1.00	236.0	235.6	235.6	
2010-01-12	12:05:36	28.0	25.4	3.64	13.5	0.0	21.5	8.0	12.3	34.1	13.19	53.0	0.0	29.0	24.0	71.7	68.2	21.6	4.90	105.9	6.96	150.4	41.5	42.9	41.1	1.00	235.6	235.4	235.2	
2010-01-12	12:05:27	28.0	25.4	3.63	13,4	0.0	21.4	8.0	12.3	33.1	13.72	54.5	0.0	29,1	25.4	71.1	74.2	22.3	5.14	114.6	7,27	161.9	41.7	42.8	41.1	1.00	236.6	236.0	236.0	
2010-01-12	12:05:17	28.0	25.5	3.54	12.8	0.0	21.3	8.5	12.3	32.8	13.79	54.7	0.0	29.1	25.5	70.4	78.6	21.8	5.33	116.3	7.49	163.5	40.6	41.4	40.6	1.00	236.2	235.7	235.6	
2010-01-12	12:05:06	28.0	25.5	3.54	12.8	0.0	21.2	8.4	12.3	33.5	12.44	50.8	0.0	29.2	21.6	70.1	67.3	21.1	4.96	104.4	7.04	148.2	40.0	41.4	40.3	1.00	236.0	235.3	235.5	
2010-01-12	12:04:57	28.1	25.6	3.61	13.3	0.0	21.1	7.8	12.4	34.4	12.31	50.4	0.0	29.1	21.3	70.1	64.6	21.2	4.88	103.6	6.94	147.4	40.5	42.0	40.4	1.00	236.0	235.7	235.4	
2010-01-12	12:04:46	28.1	25.7	3.65	13.6	0.0	21.0	7.4	12.4	34.7	12.49	51.0	0.0	28.7	22.3	70.0	65.1	21.3	4.92	105.0	6.98	148.8	40.8	41.7	40.8	1.00	236.0	235.6	235.8	
010-01-12		20.0	25.0	3.73	14.1	0.0	20.0	6.7	12.5	34.0	12.71	51,6	0.0	27.9	23.7	69.9	65.0	21,7	4.35	107.6	6.99	151.5	41.4	42.6	40.7	1,00	235.8	-	235.5	
2010-01-12	12:04:27	28.0	25.9	1.75	14.2	0.0	20.7	6.5	12.6	33.1	13.07	52.7	0.0	27.0	25.7	69.4	68.6	21.9	5.17	113.4	7.20	157.8	41.8	42.5	40.8	1.00	236.5	235.9	236.4	
2010-01-12	12:04:17	27.9	26.0	3.65	13.5	0.0	20.4	6.9	12.7	30.6	13.77	54.6	0.0	26.2	28.4	67.7	81.7	22.3	5.81	129.4	7.92	176.6	41.6	43.3	41.6	1.00	234.8	234.3	234.3	

Technical Specifications

Item	Units		Air - cooled		Water-cooled								
Model		RFIG0176SD	RFIG0225SD	RFIG0281SD	RFIL0190SD	RFIL0253SD	RFIL0310SD						
Nominal Capacity	TR	50	64	80	54	72	88						
Rated Power	KW	54	71.7	89.6	37.8	49	59						
Refrigerant		R-134a											
Power Source		Main - 400V <u>+</u> 10%, 50Hz, 3Ph AC Control - 230V AC / 24V DC											
Compressor		Semi-hermetic Compact Screw											
Chilled Water Flow I	m³/hr	27.6	35.3	44.2	29.8	39.8	48.6						
Chilled Water Flow II		5.7	7.2	9.1	6.1	8.1	10						
Temperature Range I	°C	+6 to +15											
Temperature Range II	°C	+6 to +22											
Condensor Water Flow	m³/hr	NA	NA	NA	50.2	67	81.8						
Capacity Control		25% to 100%, Stepless											
Evaporator		Shell & Tube											
Condensor		Finn	ed Tube, Low FPI, Co	oated	Shell & Finned Tube								
Expansion Valve		Electronic											
Communication		SCADA / MODBUS / BACnet / BMS											
Dimensions	mm(LBH)	2800x1900x2750	4200x1900x2750	4200x1900x2750	4100x850x1715	4300x850x1785	3410x950x2200						
Weight (Approx)	kg	3300	3500	4250	2950	3250	3900						
Noise Level	dBA		90		85								

^{*}Other models in the series are also available. Specifications may change without notice.

Complete Range of Chillers available from 2TR to 1800TR, +60°C to -55°C







