

Aircooled liquid heat pumps HFT series, scroll compressors R410A, plate evaporator, condenser with copper tubes, aluminium finned core and axial fans

SCC (Super Comfort Chiller) Cooling Plus Energy® Series	Model	HFT	012	016	018	022	030	038	045	055	061	070	075	090	100	
NOMINAL COOLING CAPACITY (1)			kW	12,2	15,8	18	22,5	31,7	39	45	52	61	66	78	90	96
COMPRESSORS NOMINAL ABSORBED POWER (1)			kW	3,9	5,2	5,8	6,7	8,9	11,5	12,9	17,0	17,8	20,5	23,0	25,9	30,7
COP CHILLER			kW/kW	3,13	3,04	3,10	3,36	3,56	3,39	3,49	3,06	3,43	3,22	3,39	3,47	3,13
EER CHILLER			kW/kW	2,70	2,70	2,80	3,00	3,07	2,97	3,14	2,79	3,00	2,70	2,90	3,02	2,77
NOMINAL HEATING CAPACITY (1)			kW	14,3	18,2	20	26,3	36	43	51	57	67	73	86	100	106
COMPRESSORS NOMINAL ABSORBED POWER (2)			kW	3,7	5,0	5,3	6,7	8,7	11,0	12,4	13,9	16,3	17,8	22,4	24,3	25,6
COP HEAT PUMP			kW/kW	3,86	3,64	3,44	3,93	4,14	3,91	4,11	4,10	4,11	4,10	3,84	4,10	4,14
COP HEAT PUMP			kW/kW	3,10	3,15	3,61	3,50	3,56	3,47	3,70	3,48	3,56	3,60	3,45	3,76	3,61
MAXIMUM ABSORBED CURRENT (F.L.A.)			A	71	71	75	100	144	162	201	168	169	178	191	234	252
MAXIMUM PEAK CURRENT (L.R.A.)			A	14	14,6	18,8	20	30	37	41	50	53	60	64	72	84
REFRIGERANT CIRCUITS			nr.	1	1	1	1	1	1	1	1	1	1	1	1	1
SCROLL COMPRESSORS			nr.	1	1	1	1	1	1	1	2	2	2	2	2	2
PARTION STEP			nr.	1	1	1	1	1	1	1	1	1/1	1/1	1/1	1/1	1/1
EVAPORATOR PRESSURE DROPS COOLING			kPa	30	30	30	31	52	55	32	33	48	35	48	38	49
EVAPORATOR PRESSURE DROPS HEATING			kPa	57	56	59	57	57	59	46	47	50	47	52	43	51
HYDRAULIC SECTION (OPTIONAL)																
NOMINAL WATER FLOW COOLING			m3/h	2,1	2,7	3,1	3,9	5,3	6,6	7,6	8,9	10,0	11,4	12,9	15,0	16,0
COOLING AVAILABLE PRESSURE			mca	20	20	20	20	19	20	20	19	19	24	21	19	25
NOMINAL WATER FLOW HEATING			m3/h	2,4	3,13	3,44	4,5	6,2	7,4	8,8	9,8	11,5	12,6	14,8	17,1	18,2
HEATING AVAILABLE PRESSURE			mca	18	18	17	18	18	19	19	18	18	23	20	18	24
PUMP ABSORBED POWER			kW	0,7	0,7	0,8	0,9	0,9	0,9	1,5	1,5	1,5	1,5	2,2	2,2	3
PUMP ABSORBED CURRENT			A	1,5	1,5	1,7	2,3	2,3	2,3	3	3	3	5	5	5	6
HYDRAULIC CONNECTIONS			BSP/DN	1"	1"	1"	1 1/4"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"	2"	2"
TANK VOLUME			dm3	50	50	110	110	270	270	270	270	460	460	460	460	460
FAN SECTION (AXIAL)																
TOTAL AIR FLOW			m3/h	5900	5700	5700	9100	15600	16800	14800	15600	24800	36000	36000	34000	34000
FANS			nr.	1	1	1	1	2	2	2	2	2	2	2	2	2
FANS ABSORBED POWER			kW	0,68	0,68	0,68	0,81	1,44	1,62	1,44	1,62	2,50	3,90	3,90	3,90	3,90
FANS ABSORBED CURRENT			A	3,0	3,0	3,0	1,5	2,8	3,0	2,8	3,1	5,0	7,8	7,8	7,8	7,8
TOTAL ELECTIC DATA																
NOMINAL ABSORBED POWER (WITHOUT PUMP)			kW	4,6	5,9	6,6	7,5	10,3	12,9	14,3	18,5	20,3	23,0	25,5	28,1	34,5
MAXIMUM ABSORBED CURRENT(F.L.A.)			A	12,2	12,8	17,0	17,4	23,9	29,5	33,6	43,2	47,2	55,3	60,6	69,4	78,7
MAXIMUM PEAK CURRENT (L.R.A.)			A	67	67	71	102	142	160	197	215	168	184	189	236	254
ELECTRIC FEED			V/Ph/Hz		400/3/50 N			400/3/50								
NOISE DATA																
SOUND PRESSURE (3)			dB(A)	50	50,7	51,3	51,6	51,0	53,5	54,0	55,1	55,5	56,0	57,5	58,5	59,5
DIMENSIONS AND WEIGHT																
LENGTH			mm	820	820	1008	1008	1610	1610	1610	1610	2220	2220	2220	2220	2220
WIDTH			mm	615	615	718	718	860	860	860	860	1100	1100	1100	1100	1100
HEIGHT			mm	1360	1360	1580	1580	1540	1540	1540	1540	2100	2100	2100	2100	2100
WEIGHT EMPTY			kg	210	225	230	240	390	400	430	450	710	785	800	815	870
WEIGHT OPERATING			kg	340	355	360	370	690	700	730	750	1125	1200	1215	1230	1290

The manufacturer reserves the right to modify specifications without notice

updated on 27/05/2013

Data referred to:

(1) Inlet/Outlet water temperature = +12/+7 °C - Con denser air temperature = +35°C; fouling factor = 0.0 00043 m²K/W

(2) Heat pump outlet water temperature = +45°C; air t emperature = +7°C

(3) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

Aircooled liquid HFT series, scroll compressors R410A, plate evaporator, condenser with copper tubes and aluminium finned core and axial fans											
						RV "fan speed cut-phase regulator" included					
SCC (Super Comfort Chiller) Cooling Plus Energy® Series	Model	HFT	130	160	185	230	280	340	370	430	480
NOMINAL COOLING CAPACITY (1)		kW	127	156	184	227	277	340	370	430	480
COMPRESSORS NOMINAL ABSORBED POWER (1)		kW	35,7	46,0	51,8	70,1	77,6	96,0	106,9	127,8	149,5
COP CHILLER		kW/kW	3,56	3,39	3,55	3,24	3,57	3,54	3,46	3,36	3,21
EER CHILLER		kW/kW	3,32	2,89	3,19	2,84	3,17	3,22	3,12	3,08	2,98
NOMINAL HEATING CAPACITY (1)		kW	139	171	200	245	290	365	390	498	506
COMPRESSORS NOMINAL ABSORBED POWER (2)		kW	34,4	44,8	50,0	66,0	85,0	104,0	111,0	142,4	145,4
COP HEAT PUMP		kW/kW	4,04	3,82	4,00	3,71	3,41	3,51	3,51	3,50	3,48
EER HEAT PUMP		kW/kW	3,77	3,24	3,58	3,24	3,06	3,21	3,18	3,23	3,22
MAXIMUM ABSORBED CURRENT (F.L.A.)		A	92,2	117,3	134,9	179,9	219,5	265,5	285,0	323,4	369,4
MAXIMUM PEAK CURRENT (L.R.A.)		A	213	249	302	355	430	524	450	533	554
SCROLL COMPRESSORS		nr.	4	4	4	4	4	4	6	6	6
REFRIGERANT CIRCUITS		nr.	2	2	2	2	2	2	2	2	2
PARTION STEP		nr.	2/2	2/2	2/2	2/2	2/2	2/2	3/2	3/2	3/2
EVAPORATOR PRESSURE DROPS COOLING		kPa	30	31	35	36	43	41	52	52	49
EVAPORATOR PRESSURE DROPS HEATING		kPa	35	34	38	40	47	45	54	53	54
HYDRAULIC SECTION (OPTIONAL)											
NOMINAL WATER FLOW		m3/h	21,8	26,8	31,6	39,0	47,7	58,5	63,6	72,4	82,6
COOLING AVAILABLE PRESSURE		mca	20	19	23	19	20	25	24	22	20
NOMINAL WATER FLOW HEATING		m3/h	23,9	29,4	34,4	42,1	49,9	62,8	67,1	85,7	87,0
HEATING AVAILABLE PRESSURE		mca	19	18	22	18	19	23	23	21	19
PUMP ABSORBED POWER		kW	3	3	4	4	5,5	7,5	7,5	7,5	9,2
PUMP ABSORBED CURRENT		A	6	6	7,4	7,4	10,4	14,3	14,3	14,3	17
HYDRAULIC CONNECTIONS		BSP/DN	DN65	DN65	DN65	DN125	DN125	DN150	DN150	DN150	DN200
TANK VOLUME		dm3	390	390	390	500	500	500	500	500	500
FAN SECTION (AXIAL)											
TOTAL AIR FLOW		m3/h	38000	58000	54000	90000	87500	85000	108000	105000	102000
FANS		nr.	2	3	3	5	5	5	6	6	6
FANS ABSORBED POWER		kW	3,88	5,82	5,82	9,70	9,70	9,70	11,64	11,64	11,64
FANS ABSORBED CURRENT		A	7,8	11,7	11,7	19,5	19,5	19,5	23,4	23,4	23,4
TOTAL ELECTIC DATA											
NOMINAL ABSORBED POWER (WITHOUT PUMP)		kW	38,2	53,9	57,6	79,8	87,3	105,7	118,5	135,0	144,0
MAXIMUM ABSORBED CURRENT(F.L.A.)		A	92,2	117,3	134,9	179,9	219,5	265,5	285,0	323,4	369,4
MAXIMUM PEAK CURRENT (L.R.A.)		A	213	249	302	355	430	524	450	533	554
ELECTRIC FEED	V/Ph/Hz		400/3/50								
NOISE DATA											
SOUND PRESSURE (2)		dB(A)	56,4	59,3	59,7	62,2	62,6	64,9	65,5	66,5	67,1
DIMENSIONS AND WEIGHT											
LENGTH		mm	3350	3350	3350	5350	5350	5350	6350	6350	6350
WIDTH		mm	1100	1100	1100	1100	1100	1100	1100	1100	1100
HEIGHT		mm	2180	2180	2180	2180	2180	2180	2180	2180	2180
WEIGHT EMPTY		kg	1265	1440	1595	1915	2115	2160	2390	2560	2720
WEIGHT OPERATING		kg	1950	2155	2350	2695	3025	3080	3310	3480	3640

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updated on 09/05/2013

Data referred to:

(1) Inlet/Outlet water temperature = +12/+7 °C - Co ndenser air temperature = +35°C; fouling factor = 0 .000043 m²K/W

(2) Heat pump outlet water temperature = +45°C; air temperature = +7°C

(3) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface