



# FOCS3-W-Z 0551 - 4752

## LIQUID CHILLER, WATER SOURCE 188-1693 kW

### FOCS3-W-Z

Model		0551	0701	0851	0951	1101	1301	1401	1651	1901	2101	2501
Power supply	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50

#### PERFORMANCE

##### COOLING ONLY (GROSS VALUE)

Cooling capacity	(1)	kW	188	250	306	338	384	460	524	592	682	741	837
Total power input	(1)	kW	34,9	45,9	56,1	61,2	69,8	82,5	93,0	104	122	133	149
EER	(1)	kW/kW	5,39	5,45	5,45	5,52	5,49	5,57	5,63	5,70	5,59	5,57	5,61
ESEER	(1)	kW/kW	6,84	7,09	6,55	6,85	6,80	6,73	6,90	7,00	6,90	6,89	6,94

##### COOLING ONLY (EN14511 VALUE)

Cooling capacity	(1)(2)	kW	187	249	305	336	382	458	522	590	679	739	834
EER	(1)(2)	kW/kW	5,09	5,14	5,16	5,21	5,20	5,30	5,40	5,41	5,33	5,34	5,37
Cooling energy class			A	A	A	A	A	A	A	A	A	A	A
SEPR	(3)(4)		7,97	8,07	7,69	7,74	7,71	7,51	7,68	7,53	7,53	7,85	7,86

##### COOLING ONLY (GROSS VALUE)

###### 16°C/10°C

Cooling capacity	(5)	kW	210	279	340	375	426	513	584	660	759	826	933
Total power input	(5)	kW	35,3	46,3	56,6	61,9	70,6	83,6	94,3	106	124	135	152
EER	(5)	kW/kW	5,94	6,02	6,02	6,06	6,04	6,13	6,20	6,25	6,12	6,11	6,15

###### 23°C/15°C

Cooling capacity	(6)	kW	247	328	400	441	501	605	689	777	895	975	1101
Total power input	(6)	kW	35,8	46,9	57,2	62,8	71,7	85,1	96,1	108	127	138	155
EER	(6)	kW/kW	6,90	7,00	7,00	7,02	6,99	7,11	7,17	7,21	7,06	7,06	7,12

#### EXCHANGERS

##### HEAT EXCHANGER USER SIDE IN REFRIGERATION

Water flow	(1)	l/s	9,00	11,95	14,63	16,15	18,34	21,99	25,06	28,30	32,59	35,45	40,03
Pressure drop	(1)(2)	kPa	42,0	48,7	49,1	52,4	52,8	47,5	39,9	50,9	42,0	42,7	42,8

##### HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION

Water flow	(1)	l/s	10,64	14,10	17,26	19,01	21,61	25,86	29,42	33,17	38,31	41,69	47,02
Pressure drop	(1)(2)	kPa	56,7	57,2	56,0	58,6	57,4	54,5	44,3	55,2	59,7	45,3	47,6

#### REFRIGERANT CIRCUIT

Compressors nr.	N°	1	1	1	1	1	1	1	1	1	1	1	1
No. Circuits	N°	1	1	1	1	1	1	1	1	1	1	1	1
Refrigerant charge	kg	75,0	86,0	95,0	94,0	86,0	100	110	112	121	147	182	

#### NOISE LEVEL

Sound Pressure	(7)	dB(A)	77	77	80	80	80	80	80	80	80	82	82
Sound power level in cooling	(8)(9)	dB(A)	95	95	98	98	98	98	98	98	98	100	100

#### SIZE AND WEIGHT

A	(10)	mm	2920	2920	2920	2920	2920	2900	2900	2900	2930	2980	2990
B	(10)	mm	1180	1180	1180	1180	1180	1180	1180	1180	1180	1190	1280
H	(10)	mm	1870	1870	1870	1870	1870	1960	1970	1960	2050	2100	2200
Operating weight	(10)	kg	1740	1790	2170	2200	2260	2940	3020	3150	3270	3570	3960

#### NOTES

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## ADVANCED CONTROL

The new controller featuring proprietary settings to ensure faster adaptive responses to different dynamics.

### The new user interface features:



LED icons that allow a full and immediate status display of the various circuits, including circulation pumps and condensing circuits. (for air cooled units only)

Controls and display that allow easy and safe access to the unit's settings.

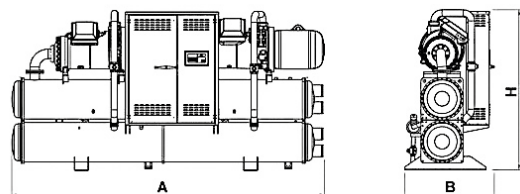
**FOCS3-W-Z**

Model			2602	3002	3152	3502	3652	4002	4102	4502	4602	4752
Power supply		V/phase	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
<b>PERFORMANCE</b>												
<b>COOLING ONLY (GROSS VALUE)</b>												
Cooling capacity	(1)	kW	916	1062	1140	1218	1303	1382	1450	1522	1614	1693
Total power input	(1)	kW	164	187	196	214	225	242	253	268	284	292
EER	(1)	kW/kW	5,58	5,68	5,82	5,69	5,80	5,72	5,74	5,68	5,68	5,80
ESEER	(1)	kW/kW	7,35	7,43	7,46	7,24	7,32	7,28	7,27	7,12	7,39	7,39
<b>COOLING ONLY (EN14511 VALUE)</b>												
Cooling capacity	(1)(2)	kW	913	1058	1137	1214	1299	1377	1445	1517	1609	1688
EER	(1)(2)	kW/kW	5,37	5,42	5,63	5,43	5,60	5,46	5,50	5,42	5,45	5,54
Cooling energy class			A	A	A	A	A	A	A	-	-	-
SEPR	(3)(4)		7,61	7,57	7,96	7,57	7,92	7,62	7,69	8,00	8,04	8,14
<b>COOLING ONLY (GROSS VALUE)</b>												
<b>16°C/10°C</b>												
Cooling capacity	(5)	kW	1021	1184	1272	1357	1454	1541	1617	1697	1801	1888
Total power input	(5)	kW	166	189	199	217	228	246	256	272	288	296
EER	(5)	kW/kW	6,14	6,25	6,40	6,24	6,38	6,28	6,31	6,23	6,24	6,38
<b>23°C/15°C</b>												
Cooling capacity	(6)	kW	1205	1397	1502	1600	1715	1817	1907	2001	2125	2229
Total power input	(6)	kW	169	193	202	222	232	251	261	278	294	301
EER	(6)	kW/kW	7,12	7,23	7,42	7,21	7,38	7,25	7,29	7,21	7,23	7,42
<b>EXCHANGERS</b>												
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>												
Water flow	(1)	l/s	43,80	50,79	54,53	58,23	62,33	66,11	69,33	72,76	77,20	80,94
Pressure drop	(1)(2)	kPa	40,0	51,5	37,4	51,4	39,8	50,4	46,7	51,5	42,5	46,7
<b>HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION</b>												
Water flow	(1)	l/s	51,49	59,55	63,73	68,26	72,87	77,45	81,18	85,33	90,51	94,64
Pressure drop	(1)(2)	kPa	44,0	53,8	31,6	56,2	33,7	52,9	49,5	54,7	53,1	58,0
<b>REFRIGERANT CIRCUIT</b>												
Compressors nr.		N°	2	2	2	2	2	2	2	2	2	2
No. Circuits		N°	2	2	2	2	2	2	2	2	2	2
Refrigerant charge		Kg	210	249	270	270	280	280	288	297	341	341
<b>NOISE LEVEL</b>												
Sound Pressure	(7)	dB(A)	81	81	81	81	81	81	82	82	82	82
Sound power level in cooling	(8)(9)	dB(A)	100	100	100	100	100	100	101	102	102	102
<b>SIZE AND WEIGHT</b>												
A	(10)	mm	4430	4430	4440	4470	4470	4470	4565	4650	5270	5270
B	(10)	mm	1270	1270	1270	1270	1320	1270	1320	1320	1320	1320
H	(10)	mm	2210	2210	2280	2250	2330	2280	2380	2380	2380	2380
Operating weight	(10)	Kg	6200	6430	7080	7160	7560	7280	7850	7940	8420	8950

**NOTES:**

- Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger water (in/out) 30°C/35°C.
  - Values in compliance with EN14511-3:2013.
  - Seasonal space heating energy index
  - Seasonal energy efficiency of high temperature process cooling [REGULATION (EU) N. 2016/2281]
  - User side heat exchanger water temperature (in/out) 16°C/10°C; source side heat exchanger water temperature (in/out) 30°C/35°C.
  - User side heat exchanger water temperature (in/out) 23°C/15°C; source side heat exchanger water temperature (in/out) 30°C/35°C.
  - Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
  - Sound power on the basis of measurements made in compliance with ISO 9614.
  - Sound power level in cooling, indoors.
  - Unit in standard configuration/execution, without optional accessories.
- The units highlighted in this publication contain HFC R134a [GWP<sub>100</sub> 1430] fluorinated greenhouse gases.

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**As an option a new touch screen interface is available**



7" color display that allows intuitive navigation between the different screens.

the presence of a USB port allows quick and easy application updates, as well as downloading the registered variables in graphical form.