



**NEW GENERATION CHILLER BOOSTING ADIABATIC  
PRE-COOLING SYSTEM SMART COOLING™**

**HIGHER CHILLER EFFICIENCY WITH LOWER ELECTRICITY CONSUMPTION**

**ACCESSORIES CATALOG (ENG)  
2021**



**Contact our technical support:**

E-mail - [support@smartcooling.us](mailto:support@smartcooling.us)

Phone - +371 2681 1452

We are here to help you!

# Smart Cooling™

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# PUMP MODULES, WATER SYSTEMS AND PURIFICATION



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Chiller booster PRO 10 unit



Component Description

The high-pressure chiller booster PRO 10-UV unit generates 70-140 bar of pressure within the **Smart Cooling™** system. The pump station houses a uniquely developed high-pressure pump, valves and electronics for the automated operation of the system.

1. HP Premium pump 3l / min



**Code: # EC307022**

3l / min

30kg

2. HP Premium pump 4l / min



**Code: # EC307023**

4l / min

30kg

3. HP premium pump 6l / min



**Code: # EC307024**

6l / min

30kg

4. HP professional pump 8,5l / min



**Code: # EC307133**

8l / min

30kg

5. HP professional pump 10l / min



**Code: # EC307134**

10l / min

30kg

6. HP professional pump 12l / min



**Code: # EC307135**

12l / min

30kg

7. Axial Fan



**Code: # 8500026**

230V-50/60Hz

230V

8. Fan capacitor



**Code: #6790012**

0,68mF/450V

motor 22x40mm



9. NT-FOG pump 15l / min



**Code: # TC308111**

15l / min

50Hz

10. NT-FOG pump 18l / min



**Code: # TC308112**

18l / min

50Hz

11. NT-FOG pump 21l / min



**Code: # TC308113**

21l / min

50Hz

12. NT-FOG pump 27l / min



**Code: # TC308114**

27l / min

50Hz

13. NT-FOG pump 35l / min



**Code: # TC308115**

35l / min

50Hz

14. NT-FOG pump 45l / min



**Code: # TC308116**

45l / min

50Hz

15. Condensator capacitor



**Code: #3403006001**

25uF/450V

motor 22x40mm

Dropson



Component Description

The connective elements and fastenings are made from high-quality alloys, stainless-steel and aluminum. These durable materials ensure strength and reliability for all components. The innovative design of the adiabatic Smart Cooling™ system was developed for easy and quick assembly and disassembly whenever necessary; for instance, during winter months.

16. Dropson 4000



**Code: # EMI4000**

4,5m 3/h DN25

Each treatment cell is factory calibrated with great precision in order to guarantee its efficiency according to a flow chart and hardness level specific for each model.

17. Dropson 2500



**Code: # EMI2500**

2,5m3/h DN20

The E.M.I. technology offers an extraordinary performance thanks to its innovative concept and the high quality of its materials.

18. Float brass valve for HP pump



**Code: # TC508014**

High pressure 10 micron  
M1/2"

19. Water filter BB 20"



**Code: # 59162K**

connection 1 inch  
4200gr

20. UV water sterilizer 6 l



**Code: # TC509101**

6 l/min 16W acciaio inox  
1100gr

21. UV water sterilizer 19 l



**Code: # TC509102**

19 l/min 25W  
1200gr

22. H.P. Slenoid valve F1/4"



**Code: # EC309007**

230V 50 / 60Hz  
80 bar - 1160 psi

23. Selenoid valve NO 20mm



**Code: # S103104200N**

3/4", 0.5-12BAR  
coil 230 VAC-15VA

24. Recirculation module



Component Description

**Code: # RK100**

The Water Recirculation Module ensures total water usage and recirculation. Designed for purity and efficacy, the module collects nonevaporated water, which is re-filtered and reintroduced into the adiabatic system.

25. 24V float switch



**Code: # TC309014**

Extended water tank  
feeding KIT

26. CompactON pump



**Code: # CP1**

Hose Ø suction side  
25.00 mm  
Hose Ø pressure side  
19.00 mm

27. Peripheral Pump CT 61



**Code: # SMCT361**

Close-coupled  
peripheral pump  
(regenerative pump)

28. 3/4 4-2 Way manifold



**Code: # ID-A5B**

metal  
300gr

29. Solenoid coil



**Code: # EC309006**

plug C4  
23gr

30. Water pressure gauge 0-250 bar



**Code: # 1913081001**

premium / evolution  
1/4"

31. Push-in connection



**Code: # EC307022**

3/8" M x 10 mm  
21gr

32. Push-in connection



**Code: # EC508002**

1/2" M x 10 mm  
48gr



33. HS FOG Valves



**Code: # 5311051001**

premium - evolution

Head valves HS

34. HS Seals



**Code: # 5311011001**

premium - evolution

23gr

35. Professional HW - NHD Valves



**Code: # 260012**

Valves NHD

Professional HW 2017

36. NMT Seals



**Code: # TC400042**

Seals KIT

NT-Fog 15/18/21

37. NMT Valve



**Code: # 260008**

Valve NMT

NT-Fog 15/18/21

38. Roller bearing 51108



**Code: # 3103016001**

KIT

51108 (FOG)

39. Transparent Hose 9x13



**Code: # 16991**

EX 9 \* 13

80 gr

40. Professional HW-NHD Seals



**Code: # 260189**

Seals KIT HD

2017

41. Blue hose



**Code: # EC508006**

1m

65 gr

# MEMBRANES AND CONTROL PANEL



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42. BY70M – Reflective Membrane with aluminum casing

**Code: # MSM100**



Component Description

The reflective BY70M membrane is made from a polyurethane alloy cell material mounted into an anodized aluminum casing. The structure of the cell membrane ensures its presence over the condenser does not generate resistance to the cooling fans and does not hamper the efficiency of the air-cooling unit in any way.

43. Air filter material

**Code: # TM-25280**



MB5 150 x 200 x 15

Large pores

44. Evaporative panel

**Code: # 4545/7**



600 x 2000 x 150

Wave height - 7mm

45. Control panel

**Code: # CP100**



Component Description

The PRO 1 Control Panel, which fully regulates the operational processes of the **Smart cooling™** system, starts-up the system automatically when a certain temperature is reached. Manufactured from high quality PE components, the PRO 1 Control Panel intelligently initiates and shuts down the system and can also be connected to the HVAC BMS management system for ease of operation.

46. Current switch

**Code: # RIBXGA**



RIB

130gr

47. Humidity and temperature sensor PRO

**Code: # LP**



rod-shaped Ø 12mm

With permanently attached cable.

48. PRO 1 – Control Panel

**Code: # 12/24RCE**



71.5 (4 MW) x 90x60 mm

on 35 mm DIN rail

49. Contactor

**Code: # CTSE791**



9A 3P 1NO

24VAC

# NOZZLES AND PIPES



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50. BY 70 SS – Nozzle Panel.

Component Description

**Code: #SSNP100**



The BY70SS nozzle panel is manufactured from high-quality stainless-steel and aluminum alloy. The stainless-steel nozzle routing is embedded in a robust anodized aluminium casing that ensures longevity and endurance of the Smart Release fine water-spraying components. The BY70SS nozzle panel casing was uniquely developed to facilitate quick installation and easy maintenance. The nozzle is attached to the casing unit by crafted fasteners to ensure safe and reliable fixing to any air-cooling equipment.

51. Nozzles 20 mic with ceramic disc

**Code: # ID-N11**



SS 20

8gr

52. Nozzles 30 mic with ceramic disc

**Code: # ID-N12**



SS 30

8gr

53. Ceramic nozzle discs 40 mic 10/24MFDEL

**Code: # B-NO 0.2**



SS 20 mic

10/24MFDEL

54. Ceramic nozzle discs 30 mic 10/24MFDEL

**Code: # B-NO 0.3**



SS 30 mic

10/24MFDEL

55. SS pipe 1000 / G304

**Code: #FBSS100A-304**



SS-1000/F

304

56. SS pipe 1000 / G316

**Code: #FBSS100A-316**



SS-1000/F

316

57. SS nozzle plug

**Code: #ID-FGD13**



FGD

3gr

58. E-profile

**Code: # F. 30348**



E

aluminium



59. Drain panel - end cap



**Code: # PL3**

PL3

4gr

60. High pressure flexible hose



**Code: # HLV250162**

1/4"(300mm)

200gr

61. U+E profile



**Code: # 6473**

U+E

aluminium

62. W-profile



**Code: # 6481**

W

aluminium

63. Hexagonal key



**Code: # ID-F32**

3mm, AT

5gr

# FASTENERS AND FITTINGS



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64. SS Pipe connector



**Code: # 3024-03PS**

SN

44gr

65. SS Nippel



**Code: # ID-F25**

1/2, tube 1/4, NPSS

5gr

66. SS pipe fitting



**Code: # 3026-03PS**

T/F

80gr

67. SS pipe fitting



**Code: # 3036-03PS**

L/F

64gr

68. SS Pipeend fitting without nozzle



**Code: # 3040-03PS**

SG/F

40gr

69. SS Pipe fitting end with one nozzle



**Code: # 3041-03PS**

SGS/F

40gr

70. SS Pipe X fitting



**Code: # 3039-03PS**

X/F

103gr

71. SS Pipe fitting 1 nozzle



**Code: # 3022-03PS**

S/F

50gr

72. Screw for fitting SS



**Code: # 4H10**

M4x10

1gr

73. Plug for SS fitting



**Code: # 3032-03PS**

G/F

13gr

74. "W" profile bracket 106



**Code: #PL106**

106 x 60 (mm)

AISI304

75. "W" profile bracket 151



**Code: #PL151**

152x 60 (mm)

AISI304

76. "W" profile bracket 50



**Code: #PL50**

50 x 60 (mm)

AISI304

77. Nozzle panel bracket



**Code: # NPB90**

AR27, 90 AR

AISI304

78. Nozzle panel bracket



**Code: # MHIE**

45 IE , IE36

AISI304

79. Membrane bracket top side



**Code: # NPBAR1**

AR1, ( L )90 AR

AISI304

80. Nozzle panel bracket



**Code: # NPBIE36**

IE36

AISI304

81. Membrane top holders



**Code: # MHFZ**

FZ

AISI304

82. Connecting part E for profile L drive



**Code: # CPELJL1R**

JL1R

AISI304

83. Nozzle panel bracket



**Code: # MHKIT**

KIT

AISI304

84. Connecting part E for profile L drive



**Code: #DRE\_2\_SS2**

AISI304

60 x 42 x 32 (mm)

85. Nozzle panel bracket (L)



**Code: # NPB5.1L**

Left

AISI304

86. Nozzle panel bracket (R)



**Code: #NPB5.1R**

Right

AISI304

87. Nozzle panel bracket SS3



**Code: #NPB5\_SS3**

AISI304

30 x 43 x 75 (mm)

88. Drainage panel bracket (R)



**Code: #DRE\_3R40\_SS2**

Right / AISI304

62 x 55 x 62 (mm)

89. Drainage panel bracket (L)



**Code: #DRE\_3L40\_SS2**

Left / AISI304

62 x 55 x 62 (mm)

90. Drainage panel bracket (R)



**Code: #DRE\_3R\_SS2**

Right / AISI304

62 x 42 x 63 (mm)

91. Drainage panel bracket (L)



**Code: #DRE\_3L\_SS2**

Left / AISI304

62 x 42 x 63 (mm)

92. Drainage panel bracket



**Code: #DRE\_1\_SS2**

AISI304

20 x 37 x 62 (mm)

93. Drainage panel bracket



**Code: #DRE\_1-40\_SS2**

AISI304

20 x 50 x 60 (mm)



94. Drainage panel bracket



**Code: #DRU\_2-1\_SS3**

20 x 33 x 243 (mm)

AISI304

95. Various bracket



**Code: #VBL1\_SS3**

20 x 117 (mm)

AISI304

96. Drainage panel bracket



**Code: #DRE\_4\_SS2**

20 x 17 x 37 (mm)

AISI304

97. Drainage panel bracket



**Code: #DRU\_1\_SS3**

50 x 73 x 155 (mm)

AISI304

98. Protective membrane bracket



**Code: #PMB1\_SS2**

20 x 22 x 98 (mm)

AISI304

99. Protective membrane bracket



**Code: #PMB2\_SS2**

20 x 47 x 102 (mm)

AISI304

100. Protective membrane bracket



**Code: #PMB3\_SS2**

20 x 100 (mm)

AISI304

101. Protective membrane bracket



**Code: #PMB4\_SS2**

21,5 x 98,3 mm

AISI304

102. Nozzle panel bracket



**Code: #NPB2\_SS3**

30 x 103 x 133 (mm)

AISI304

103. Nozzle panel bracket



**Code: #NPB3-1\_SS3**

30 x 83 x 83 (mm)

AISI304

104. Various bracket



**Code: #VBL4\_SS2**

50 x 52 x 52 (mm)

AISI304

105. Various bracket



**Code: #VBL2\_6\_SS3**

20 x 70 x 70 (mm)

AISI304

106. Various bracket



**Code: #VBL3\_SS3**

40 x 40 x 40 (mm)

AISI304

107. Nozzle panel bracket



**Code: #NPB4\_SS3**

30 x 71 x 99 (mm)

AISI304

# MAINTENANCE KIT



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108. Granules



**Code: # CW350SR**

CW35 Series

1200 gr

Scale and Corrosion Inhibitor

109. Pump oil



**Code: # P0100**

PO

0,3 l

110. UV lamp



**Code: # TC509151**

TUV 15/16W

22gr

111. UV lamp



**Code: # TC509152**

TUV 25W

41gr

112. Cartridge for biochemistry



**Code: # AP-E-20BB**

BB27

715gr

113. Filter cartridge 5 microns BB35



**Code: # 59205**

50"

130gr

114. Filter cartridge 10 microns BB35



**Code: # 59210**

10"

130gr

115. Filter cartridge 20 microns BB35



**Code: # 59220**

20"

130gr

116. Cartridge for water softening



**Code: # FCCST20BB**

59534

20"

117. HS premium pump seals



**Code: # 5311011001**

premium

25gr

118. Protective membrane fastener nail



**Code: # PMFN1.1/1.2**

kit

plastic

119. High Pressure Thread Sealant 50ml



**Code: # HPT100**

50 ml

-55°C to +150°C



# MAINTENANCE TOOLS LIST



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120. Maintenance water pump



**Code: # SMWP100**

XL-battery

200 gr

121. Torque Screwdriver XH3



**Code: # SMTS100**

2.2 N·m (newton meters)

(3mm)

122. Pump station lock for rem kit



**Code: # RKIT-10**

155 mm

M16

'SMART COOLING™' OPERATE IN 45 COUNTRIES



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