Compact Cool Cooling Unit Manufacturers (Pty) Ltd was established in 1976 and operates from its own premises in Johannesburg.

Our staff are specialized in their fields and strive to always provide our customers with the same quality product and service as in the past.

The company designs, manufacturers and services industrial and laboratory cooling equipment for air and water cooling.

**Our standard product range includes**
- Water chillers (air cooled, and water cooled)
- Ice banks
- Air handlers
- Air conditioning units (Clip-on)
- Chill boxes

BS EN ISO 9001:2000 certified and a member of Proudly South Africa campaign.
WATER CHILLERS Type TC

TC 90 / 330

TC 1 / 3

TC 10 / 75

TC 5 / 7

(Air Cooled Tank Chillers)
<table>
<thead>
<tr>
<th>Model</th>
<th>Cooling capacity at 32 °C Ambient &amp; water leaving °C</th>
<th>Condenser fan(s)</th>
<th>Compressor(s)</th>
<th>Power input max.</th>
<th>Tank volume</th>
<th>Water flow at 250 kPa pump head</th>
<th>Standard pump kW</th>
<th>Current max. A</th>
<th>Dimensions width x length x height (mm)</th>
<th>Mass approx. kg</th>
<th>Operating In-Out mm</th>
<th>Over-flow</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC 1</td>
<td>1 1 1.1 1.2 1x11x300 10 1 0.2 0.3 7 500 x 500 x 900 70 100 15</td>
<td>1 1</td>
<td>1</td>
<td>1 1 1 1 1</td>
<td>1 1 1 1 1</td>
<td>1 1 1 1 1</td>
<td>1 1 1 1 1</td>
<td>1 1 1</td>
<td>1 1 1 1 1</td>
<td>1 1 1 1 1</td>
<td>1 1 1 1 1</td>
<td>1 1 1 1 1</td>
</tr>
<tr>
<td>TC 2</td>
<td>2 2 2.2 2.2 2x11x300 11 2 0.3 0.4 10 500 x 500 x 900 70 100 15</td>
<td>2 2</td>
<td>2</td>
<td>2 2 2 2 2</td>
<td>2 2 2 2 2</td>
<td>2 2 2 2 2</td>
<td>2 2 2</td>
<td>2 2 2</td>
<td>2 2 2 2 2</td>
<td>2 2 2 2 2</td>
<td>2 2 2 2 2</td>
<td>2 2 2 2 2</td>
</tr>
</tbody>
</table>

**COMPONENTS**
- Reciprocating compressors(s).
- Condenser coil(s) with copper tubes mechanically expanded into aluminium fins.
- Axial impeller fans(s).
- Stainless steel grade 304 tank insulated with high density polyurethane foam.
- Direct expansion open type evaporator in copper.
- Close coupled centrifugal pumps.
- Electrical panel, incorporating:
  - mains isolator
  - circuit breaker(s)
  - overload(s) and overload(s)
  - compressor anti-cycle timer (TC 7/330)
- Start/stop switch
- Start button for main functions
- Electronic multi-stage (TC 40/330) thermostat for water temperature setting with lead/lag control of compressor sequence.

**OPTIONS**
- Tank level safety switch
- Digital indication of tank (water leaving) temperature
- Water pump pressure gauge
- Compressor timer (TC 60/330)
- Make-up ball valve on water tank (TC 10/330)
- Flow switch
- Stop/start timer
- Isolating valves on water tank inlet and outlet (TC 10/330)
- Low ambient control by condenser fan speed control (TC 10/25) and cycling of fans (TC 30/330)
- Adjustable feet (TC 1/75)

**INSTALLATION**
- All units are assembled, internally wired and charged with refrigerant R22 at the factory.
- All that is required on site are water pipe connections and wiring to the mains power supply.

**FEATURE**
- Units are self-contained and compact for easy installation.
- Motor protection.
- Frame constructed from heavy gauge square tube. Galvanized covers removable for easy access to any part.
- Textured electrostatic powder coating finish.
- Large water tank to reduce stop/start of compressor(s).
- Models TC 40/330 have multiple independent refrigeration systems.
- Units are designed for continuous operation at high ambient temperature.
- Because of the evaporator design, the units can operate within a wide water temperature range.
- Manufactured in South Africa.
AIR COOLED ICE BUILDERS
ICE BANKS
### TYPICAL DIMENSIONS AND SPECIFICATIONS
(SUBJECT TO ALTERATION WITHOUT NOTICE)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>ICE ACCUMULATION after ~17 h without load (kg)</th>
<th>COMPRESSOR(S) CAPACITY 32°C ambient (kW)</th>
<th>COOLING/ MELTING CAPACITY 1.5°C water (kW)</th>
<th>PUMP 200 kPa head flow (m³/h)</th>
<th>motor (kW)</th>
<th>COMPRESSOR power input 1.5&quot; water (No. x kW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IB 60</td>
<td>800</td>
<td>74</td>
<td>4.6</td>
<td>23</td>
<td>14</td>
<td>1.1</td>
</tr>
<tr>
<td>IB 100</td>
<td>1300</td>
<td>121</td>
<td>7.6</td>
<td>38</td>
<td>7</td>
<td>1.1</td>
</tr>
<tr>
<td>IB 120</td>
<td>1500</td>
<td>140</td>
<td>8.3</td>
<td>44</td>
<td>8</td>
<td>1.1</td>
</tr>
<tr>
<td>IB 180</td>
<td>2200</td>
<td>205</td>
<td>12</td>
<td>67</td>
<td>12</td>
<td>1.1</td>
</tr>
<tr>
<td>IB 300</td>
<td>3700</td>
<td>344</td>
<td>20</td>
<td>116</td>
<td>20</td>
<td>3</td>
</tr>
<tr>
<td>IB 400</td>
<td>4800</td>
<td>446</td>
<td>27</td>
<td>145</td>
<td>25</td>
<td>3</td>
</tr>
<tr>
<td>IB 500</td>
<td>5800</td>
<td>540</td>
<td>32</td>
<td>182</td>
<td>31</td>
<td>3</td>
</tr>
<tr>
<td>IB 600</td>
<td>6900</td>
<td>642</td>
<td>39</td>
<td>212</td>
<td>36</td>
<td>4</td>
</tr>
<tr>
<td>IB 700</td>
<td>8000</td>
<td>744</td>
<td>47</td>
<td>244</td>
<td>42</td>
<td>5.5</td>
</tr>
</tbody>
</table>

### COMPONENTS
- Stainless steel grade 304 tank, insulated with high density polyethylene foam.
- Mild steel frame constructed from heavy gauge tubing, plus galvanised covers.
- Direct expansion galvanised freezer plates.
- Refrigeration (condensing) unit(s) consisting of compressor, condenser coil of copper tubes mechanically expanded into aluminium fins, and refrigerant receiver.
- Impeller type agitator(s) (IB 100/700).
- Close-coupled centrifugal water pump with suction strainer/foot valve.
- Ice thickness thermostat controlling ice build-up on freezer plates.
- Indication of ice water temperature.
- Electrical panel, incorporating:
  - mains isolator
  - circuit breaker
  - contractor(s) and overload relay(s)
  - compressor anti-cycling timer(s)
  - on/off switch for each refrigeration unit
  - on/off switch for pump/agitator(s) running simultaneously
  - signal lamps for main functions
<table>
<thead>
<tr>
<th>AGITATOR(S)</th>
<th>CURRENT 380V max.</th>
<th>TANK VOLUME</th>
<th>DIMENSIONS inclusive refrigeration unit(s)</th>
<th>MASS approx.</th>
<th>CONNECTIONS ISO R7</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No. x kW</td>
<td>A</td>
<td>litre</td>
<td>length x width x height</td>
<td>machine</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>mm</td>
<td>kg</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>10</td>
<td>1600</td>
<td>2770 x 770 x 2000</td>
<td>900</td>
</tr>
<tr>
<td>2.2</td>
<td>19</td>
<td>4600</td>
<td>3805 x 1305 x 2200</td>
<td>1400</td>
<td>6200</td>
</tr>
<tr>
<td>2.2</td>
<td>20</td>
<td>4800</td>
<td></td>
<td>1500</td>
<td>6300</td>
</tr>
<tr>
<td>2.2</td>
<td>27</td>
<td>5900</td>
<td>5055 x 1305 x 2300</td>
<td>2000</td>
<td>7900</td>
</tr>
<tr>
<td>2.2</td>
<td>44</td>
<td>10,200</td>
<td>6310 x 1605 x 2500</td>
<td>2800</td>
<td>13000</td>
</tr>
<tr>
<td>2 x 2.2</td>
<td>58</td>
<td>12900</td>
<td>6310 x 1990 x 2500</td>
<td>3500</td>
<td>16400</td>
</tr>
<tr>
<td>2 x 2.2</td>
<td>72</td>
<td>17100</td>
<td>6310 x 2380 x 2500</td>
<td>4200</td>
<td>21300</td>
</tr>
<tr>
<td>4 x 2.2</td>
<td>90</td>
<td>18400</td>
<td>6310 x 2765 x 2500</td>
<td>5000</td>
<td>23400</td>
</tr>
<tr>
<td>4 x 2.2</td>
<td>100</td>
<td>21100</td>
<td>6310 x 3150 x 2500</td>
<td>5500</td>
<td>26600</td>
</tr>
</tbody>
</table>

**OPTIONS**
- Flashing light in case of failure
- Compressor hour meter(s)
- Suction and discharge gauge with shut-off valves
- On/off switch with auto-position for remote control of pump/agitator(s)
- Stand-by pump and selector switch
- Automatic change-over in case of pump failure
- Multiple INDEPENDENT refrigeration units (IB100/300)
- Single phase and low voltage protection.

**INSTALLATION**
- All ice builders are assembled, internally wired and charged with refrigerant R22 at the factory.
- All that is required on site are water pipe connections and wiring to the mains power supply.
Features

- Units are self-contained and compact for easy installation.
- Test run before delivery.
- Frame constructed from heavy gauge tube, galvanised covers removable.
- Paint finish: frame in industrial enamel and covers in polyester electrostatic powder coating.
- Models IB 400/700 have multiple INDEPENDENT refrigeration systems.

- Units are designed for continuous operation at high ambient temperature.
- The direct expansion system keeps the refrigerant charge small against plants which operate on a flooded system.
- The impeller type agitator avoids contamination, oxidization and warming-up of the ice water occurring when compressed air is used for agitation.
- All components manufactured or sourced in South Africa.
WATER CHILLERS Type TKC
AIR HANDLING TYPE TAH

Water Chillers and matching Chilled Water Air Handling Units.

GENERAL DESCRIPTION

COMPACT COOL TKC Water Chillers, and TAH Air Handling Units are suitable for indoor or outdoor applications. The Water Chillers are designed for very high ambient temperatures. All units have aluminium profile frames, and the covers are made of aluminium. The covers for the Air Handling Units are also insulated.
## TYPICAL DIMENSIONS AND SPECIFICATIONS

### WATER CHILLERS

<table>
<thead>
<tr>
<th>Model</th>
<th>Cooling capacity at 30°C/Cambient &amp; water leaving °C</th>
<th>Fan(s)</th>
<th>Condenser power input max. kW</th>
<th>Tank volume litre</th>
<th>Water flow at 150 kPa pump head m³/h</th>
<th>Standard pump kW</th>
<th>Current max. A</th>
<th>Dimensions width x length x height mm</th>
<th>Mass approx. Kg</th>
<th>Water connections tank in/out/over-flow mm NB</th>
</tr>
</thead>
<tbody>
<tr>
<td>TKC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15800</td>
<td></td>
<td>6</td>
<td>11,5</td>
<td>1x0.64-500</td>
<td>4.4</td>
<td>200</td>
<td>2</td>
<td>0.37</td>
<td>13</td>
<td>920x1420x1850</td>
</tr>
<tr>
<td>33000</td>
<td></td>
<td>23</td>
<td>29</td>
<td>2x0.64-500</td>
<td>10</td>
<td>300</td>
<td>3.9</td>
<td>0.37</td>
<td>24</td>
<td>920x1650x2200</td>
</tr>
<tr>
<td>52000</td>
<td></td>
<td>35</td>
<td>43</td>
<td>3x0.64-500</td>
<td>15</td>
<td>400</td>
<td>5.8</td>
<td>0.75</td>
<td>38</td>
<td>920x2460x2200</td>
</tr>
</tbody>
</table>

### AIR HANDLING UNITS

<table>
<thead>
<tr>
<th>Model</th>
<th>Cooling capacity chilled water at 16°C kW</th>
<th>Centrifugal fan(s)</th>
<th>Water flow m³/h</th>
<th>Current max. A</th>
<th>Air Temp. °C</th>
<th>Dimensions width x length x height mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAH</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7500</td>
<td>7.5</td>
<td>1x1.1</td>
<td>2</td>
<td>6</td>
<td>adjustable</td>
<td>1200x700x2000</td>
</tr>
<tr>
<td>15000</td>
<td>15</td>
<td>2x1.1</td>
<td>4</td>
<td>12</td>
<td>adjustable</td>
<td>1200x1400x2000</td>
</tr>
<tr>
<td>22500</td>
<td>22.5</td>
<td>3x1.1</td>
<td>6</td>
<td>18</td>
<td>adjustable</td>
<td>1200x2100x2000</td>
</tr>
</tbody>
</table>

### COMPONENTS (CAPACITY)

- Reciprocating compressor.
- Condenser coil(s) with tubes aluminium fins.
- Axial impeller fan(s).
- Fibreglass water tank.
- Evaporator Heat Exchanger.
- Close-coupled centrifugal pump.
- Filter drier, liquid solenoid valve, sight glass expansion valve.
- Electrical panel, incorporating:
  - mains isolator
  - circuit breaker(s)
  - contactor(s) and overload(s)
  - compressor anti-cycle timer
  - Timer module anti-cycle timer & LP by-pass
  - Air Flow switch timer
- On/off switch
- Signal lamps for main functions (LED)
- Electronic thermostat with digital indication of temperature
- Mechanical safety thermostat as protection against low water temperature
- Flow switch
- Tank water level switch
- Compressor hour meter.
- Isolating valves on water tank inlet and outlet.
- Low ambient control by condenser fan speed. Adjustable feet.

### COMPONENTS AIR HANDLING UNIT

- Chilled water coil with copper tubes aluminium fins.
- Direct drive Fan(s) (bottom discharge)
- Electrical panel.
- Temperature controller.
- Temperature controlled 3 way water valve.
- Primary and secondary air filters.
- Air flow switch.
- Water flow switch.
- Dirty filter switch.
- Air damper (return/fresh air)
- Fan speed control manually adjustable

### OPTIONS

- Single phase and low voltage protection.
- Other pump models for different flow and pressure.
- Condenser with copper fins.
- Suction and discharge gauge.
- Heating.

### FEATURES

- Units are self-contained and compact for easy installation.
- Test run before delivery.
- Textured electrostatic powder coating finish.
- Large water tank to reduce stops/start of chillers.
- Units are designed for continuous operation at high ambient temperature.
- Manufactured in South Africa.
WATER CHILLERS Type SCW

GENERAL DESCRIPTION

COMPACT COOL SCW Water Chillers are designed for industrial process cooling or air-conditioning. In the evaporators and condensers, the shell is made of rolled carbon steel with high efficiency copper tubes.
# TYPICAL DIMENSIONS AND SPECIFICATIONS

(subject to alteration without notice)

<table>
<thead>
<tr>
<th>Model</th>
<th>Cooling capacity based on 11°C to 6°C and tower water 29°C to 35°C</th>
<th>No. of compressors</th>
<th>Compressor power input max.</th>
<th>Tank volume</th>
<th>Current max.</th>
<th>Evaporator circuit</th>
<th>Dimensions width x length x height</th>
<th>Steps unloading</th>
<th>Weight dry</th>
<th>Water connections</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCW</td>
<td>70</td>
<td>1</td>
<td>22</td>
<td>12</td>
<td>53</td>
<td>single</td>
<td>1100 x 2500 x 1650</td>
<td>2</td>
<td>750</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>105</td>
<td>1</td>
<td>30</td>
<td>18</td>
<td>78</td>
<td>single</td>
<td>1100 x 2500 x 1650</td>
<td>3</td>
<td>900</td>
<td>65</td>
</tr>
<tr>
<td></td>
<td>140</td>
<td>2</td>
<td>2 x 22</td>
<td>24</td>
<td>106</td>
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<td>1100 x 3000 x 1800</td>
<td>4</td>
<td>1050</td>
<td>DN 100</td>
</tr>
<tr>
<td></td>
<td>170</td>
<td>1</td>
<td>52</td>
<td>29</td>
<td>118</td>
<td>single</td>
<td>1100 x 3000 x 1800</td>
<td>3</td>
<td>1250</td>
<td>DN 100</td>
</tr>
<tr>
<td></td>
<td>210</td>
<td>2</td>
<td>2 x 30</td>
<td>36</td>
<td>156</td>
<td>double</td>
<td>1100 x 3500 x 1800</td>
<td>4</td>
<td>1600</td>
<td>DN 100</td>
</tr>
<tr>
<td></td>
<td>340</td>
<td>2</td>
<td>2 x 32</td>
<td>58</td>
<td>236</td>
<td>double</td>
<td>1200 x 3500 x 1800</td>
<td>6</td>
<td>2100</td>
<td>DN 125</td>
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<tr>
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<td>510</td>
<td>3</td>
<td>3 x 32</td>
<td>87</td>
<td>354</td>
<td>triple</td>
<td>1200 x 3500 x 1800</td>
<td>6</td>
<td>3000</td>
<td>3 x 65</td>
</tr>
<tr>
<td></td>
<td>680</td>
<td>4</td>
<td>4 x 32</td>
<td>116</td>
<td>464</td>
<td>2 x double</td>
<td>1200 x 3500 x 1800</td>
<td>8</td>
<td>4000</td>
<td>4 x 65</td>
</tr>
</tbody>
</table>

## COMPONENTS

- Semi-hermetic compressor(s).
- Shell and tube condenser(s).
- Shell and tube evaporator(s).
- Electrical panel, incorporating:
  - mains isolator
  - circuit breaker(s)
  - contactor(s) and overload(s)
  - part - wind start
  - anti-cycle start
  - on/off switch
  - signal lamp.
- Step controller.
- Freeze thermostat.
- Pressure gauges.
- HP switch unloading.
- LP switch unloading.
- Oil pressure switch.
- HP/LP switch.
- Compressor hour meter(s).
- Flow switch with timer.

## INSTALLATION

- All units are assembled, internally wired and charged with refrigerant R22 at the factory.
- All that is required on site are water pipe connections, wiring to the mains power supply and interlocks for the evaporator and condenser pump.

## OPTIONS

- Voltage monitor.
- Head pressure control.

## FEATURES

- Units are self-contained and compact for easy installation.
- Test run before delivery.
GENERAL DESCRIPTION

The Compact Cool Clip-on Package unit is suitable for indoor or outdoor applications. The frame is made of aluminium profile and the condenser unit can be removed to install remotely for different applications. One of the features of this unit is the low condensing pressure which enables it to perform in extreme ambient temperatures.
## TYPICAL DIMENSIONS AND SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Cooling capacity</th>
<th>Heating capacity</th>
<th>Condenser fan</th>
<th>Compressor power input max.</th>
<th>Evaporator fan</th>
<th>Air flow supply</th>
<th>Filter size</th>
<th>Current max</th>
<th>Dimensions width x length x height</th>
<th>Mass approx</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAC 9000</td>
<td>10.3</td>
<td>3</td>
<td>0.57</td>
<td>3</td>
<td>1.1</td>
<td>0.61</td>
<td>495x20x50</td>
<td>20</td>
<td>580 x 830 x 2555</td>
<td>190</td>
</tr>
<tr>
<td>TAC 9000H</td>
<td>10.3</td>
<td>3</td>
<td>0.57</td>
<td>3</td>
<td>1.1</td>
<td>0.61</td>
<td>405x620x50</td>
<td>20</td>
<td>580 x 830 x 2555</td>
<td>200</td>
</tr>
<tr>
<td>TAC 12000</td>
<td>13.5</td>
<td>3</td>
<td>0.64</td>
<td>3.5</td>
<td>1.3</td>
<td>0.79</td>
<td>495x620x50</td>
<td>22</td>
<td>580 x 830 x 2555</td>
<td>210</td>
</tr>
</tbody>
</table>

Above conditions are based at sea level, ambient 32 °C, return air 23 °C db, 16 °C wb.

## COMPONENTS

- Reciprocating compressor.
- Condenser coil with copper tubes with aluminium fins.
- Evaporator coil with copper tubes with aluminium fins.
- Axial condenser fan.
- Centrifugal evaporator fan.
- Heater bank.
- Electrical panel
  - main isolator
  - circuit breaker, and fuses
  - contactors and overload
  - compressor anti-cycle timer
  - and LP by pass timer.
- On/off switch.
- Fault/function indication lights (led)
- Cool-heat control thermostat with dead zone.
- Heater safety thermostat.
- Humidity switch.
- Dirty filter switch.
- Air flow switch.
- Low ambient control by variable condenser fan speed.
- Manually adjustable evaporator fan speed.
- All units are assembled, internally wired and charged with refrigerant R22 at the factory.
- Manufactured in South Africa with local after sales service.

## OPTIONS

- Condenser and/or evaporator with epoxy coated fins.
- Condenser and/or evaporator with copper fins.
- Top discharge evaporator fan.
- Units are self-contained and compact for easy installation.
- Test run before delivery.
- Frame constructed from aluminium profile. Insulated aluminium covers removable for easy access.
- Textured electrostatic powder coating finish.
- Units are designed for continuous operation at high ambient temperatures.
- By pass air damper.
- Washable air filter.
- Clip-on fixing bolts supplied.
GELÖTETE PLATTFENWÄRME-ÜBERTRÄGER

Aufbau und Wirkungsweise

Einsatzgebiete
Typische Einsatzgebiete für WTT-Plattenschüttungsübertrager sind die Haustechnik (Warmwasserbereitungsanlagen, Fernwärmenetze), Entwässerungssysteme, Verdampfer, Kondensatoren in der Kälte- und Industrieberechnung (Ölkühler).

Auslegung
Durch das ausgereifte Computerprogramm gewährleistem wir eine optimale Auslegung für Ihren Anwendungsbezug.

Isolierung & Anschlußverdrahtungen
WTT-Plattenschüttungsübertrager können komplett mit Isolierung (PU-Hartschaum) und Anschlußverkabelungen (wahrscheinlich mit LOT, Gestein und Schweißwerk) bestellt werden.

Werkstoffe:
- Platten: 1.4401, Lot: Küpper (WP, AE), Nickel (NP)
- Betriebsbedingungen:
  - max. Betriebstemperatur: 160 °C
  - max. Betriebstemperatur: 195 °C

Leistung:
- bis 2000 kW

Technische Daten

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