COMPACT COOL®

COMPACT COOL COOLING UNIT
MANUFACTURERS (PTY) LTD
Reg. No. 197600414707
BS EN Iso 9001:2000 CERTIFIED
MEMBER OF PROUDLY SOUTH AFRICA

CATALOGUE

ISO 9001 CERT NO: 110842

QS 18042014 CB 15

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

Our staff are specialized in there 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

KGS
ISO 9001 CERT NO: 110842

STANDARDS MALAYSIA
ACCREDITED CERTIFICATION BODY
QS 18042014 CB 15

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

PROUDLY SOUTH AFRICAN®

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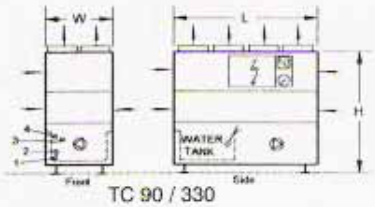
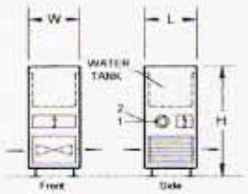
WATER CHILLERS Type TC

TC 90 / 330

TC 1 / 3

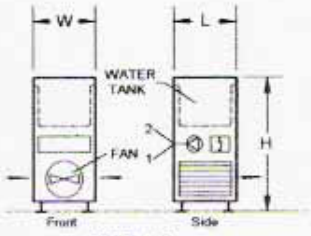


TC 90 / 330

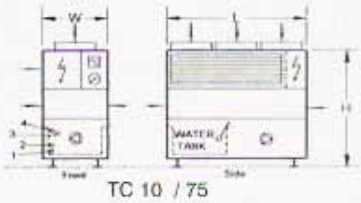


TC 1 / 3

TC 10 / 75



TC 5 / 7



TC 10 / 75

TC 5 / 7

— = Air Flow
= Water Pump
= Temperature Controller/Display
= Pressure Gauge
= Control Panel

1 = Return Water
2 = Supply Water
3 = Tank Over Flow
4 = Make Up Water

ISO 9001 CERT NO: 110842 QS 18042014 CB 15

(Air Cooled Tank Chillers)

ENSIONS AND SPECIFICATIONS

N WITHOUT NOTICE)

ng capacity at C ambient & er leaving °C		Condenser fan(s)	Compressor(s) power input max.	Tank volume	Water flow at 250 kPa pump head	Standard pump	Current max.		Dimensions width x length x height	Mass approx		Water c
10	15									machine	operating	In / Out
kW		No. x kW-Ø mm	No. x kW	Litre	m³/h	kW	A		mm	kg		
1.1	1.2	1x0.11-300	1.0	40	0.2	0.3	7	220V	500 x 500 x 900	70	100	15
2.3	2.6	1x0.11-300	1.5	40	0.4	0.3	9	220V	500 x 500 x 900	80	110	15
3.5	4	1x0.24-350	2.1	100	0.6	0.33	12	220V	640 x 640 x 1460	110	190	25
6	7	1x0.37-400	2.6	100	1	0.37	9	380V	640 x 640 x 1460	140	220	25
8	9.5	1x0.37-400	3.4	100	1.4	0.35	10	380V	640 x 640 x 1460	150	230	25
12	13	1x0.64-500	4.4	100	2	0.35	13	380V	790 x 1480 x 1970	500	800	40
14	15	1x0.64-500	7.2	100	2.4	0.75	16	380V	790 x 1480 x 1970	530	830	40
19	22	1x0.55-670	8.2	290	3.2	0.75	19	380V	790 x 1480 x 1970	550	850	40
23	27	1x0.55-670	10	290	4	0.75	24	380V	790 x 1480 x 1970	600	900	40
29	31	2x0.64-500	11.5	290	5	1.1	29	380V	790 x 1480 x 1970	650	950	40
35	38	2x0.55-670	15	500	6	1.5	39	380V	790 x 2720 x 1970	800	1300	50
48	54	3x0.55-670	2 x 10	500	8.3	1.5	50	380V	790 x 2720 x 1970	900	1400	50
58	62	3x0.55-670	2 x 11.5	500	10	2.2	56	380V	790 x 2720 x 1970	950	1450	50
70	76	3x0.55-670	2 x 15	950	12	2.2	75	380V	1280 x 2720 x 1970	1100	2000	65
87	93	3x0.55-670	3 x 11.5	950	15	3	79	380V	1280 x 2720 x 1970	1150	2050	65
105	114	4x0.55-670	3 x 15	1200	18	3	110	380V	1150 x 4150 x 2200	1800	3200	65
140	152	5x0.55-670	4 x 15	1400	24	4	147	380V	1300 x 4150 x 2600	2000	3400	65
175	190	7x0.55-670	5 x 15	2000	30	4	183	380V	1650 x 4150 x 2600	2500	4400	80
210	228	8x0.55-670	6 x 15	2500	36	4	218	380V	2190 x 4150 x 2600	3050	5700	80
245	266	10x0.55-670	7 x 15	2500	42	5.5	256	380V	2190 x 4150 x 2600	3200	6000	100
280	304	12x0.55-670	8 x 15	2900	48	7.5	292	380V	2430 x 4150 x 2600	3700	6600	100
315	342	14x0.55-670	9 x 15	4000	54	7.5	325	380V	2430 x 6300 x 2600	4100	8100	100
350	380	16x0.55-670	10 x 15	4000	60	7.5	358	380V	2430 x 6300 x 2600	4300	8300	100
385	418	18x0.55-670	11 x 15	4000	66	9.2	395	380V	2430 x 6300 x 2600	4500	8500	100

pressor(s).
with copper tubes mechanically
ninium fins.
s).
le 304 tank insulated with high
ne foam.
pen type evaporator in copper.
trifugal pump.
corporating:

overload(s)
cycle timer (TC 7/330)

ain functions
tage (TC 40/330) thermostat
ure setting with lead/lag control
uence.
thermostat as protection
water temperature.

- Tank water level safety switch
- Digital indication of tank (water leaving) temperature.
- Water pump pressure gauge.
- Compressor hour meters (TC 60/330)
- Make-up ball valve in water tank (TC 10/330).
- Suction stainer of pump.
- 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.

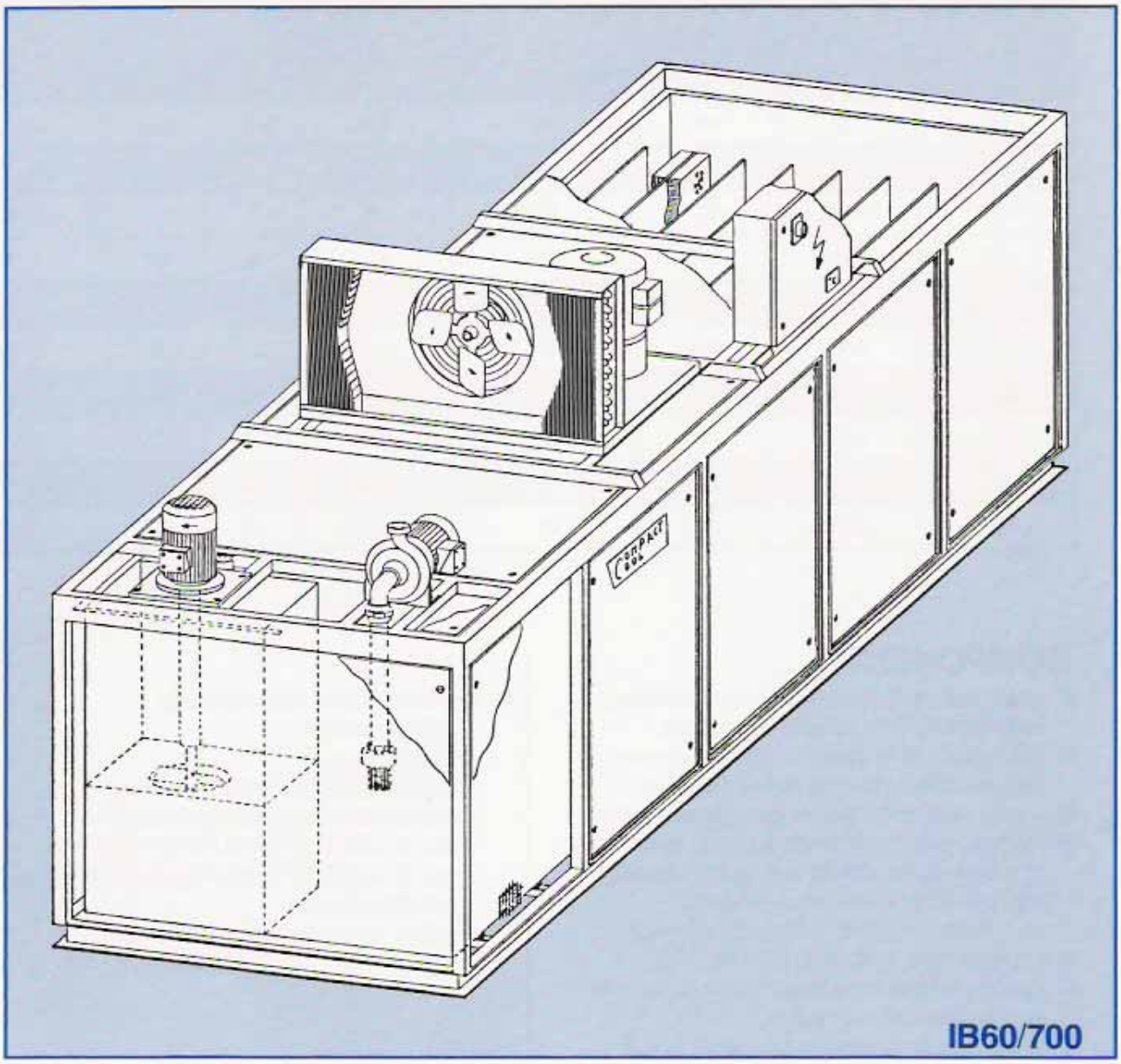
OPTIONS

- Flashing alarm light.
- Compressor hour meter (TC 1/50).
- Suction and discharge gauge for each compressor.
- Centrifugal type condenser fan(s) for duct application. Condenser heat may be diverted outside and during cold weather warm air can be diverted inside for space heating.
- Castors for easy manoeuvrability (TC 1/75).
- Single phase and low voltage protection.
- Stand-by pump plus pump selector switch.
- Automatic change-over of pump in the event of pump failure.
- Other pump models for different flow and pressure.
- Condenser with copper fins.
- Standard condenser with epoxy coated fins
- Frame hot dip galvanized.
- Other refrigerant.
- Scroll compressor.

FEATURE

- Units are self-contained and installation
- Test run before delivery.
- Frame constructed from heav tube. Galvanized covers rem access to any part.
- Textured electrostatic powde
- Large water tank to reduce st compressor(s).
- Models TC 40/240 have mul independent refrigeration sys
- Units are designed for contin high ambient temperature.
- Because of the evaporator de operate within a wide water
- Manufactured in South Afric

COMPACT COOL



AIR COOLED ICE BUILDERS

ICE BANKS

TYPICAL DIMENSIONS AND SPECIFICATIONS
(SUBJECT TO ALTERATION WITHOUT NOTICE)

MODEL	ICE ACCUMULATION after ~ 17 h without load		COMPRESSOR(S) CAPACITY 32°C ambient	COOLING/ MELTING CAPACITY 1.5°C water	PUMP 200 kPa head		COMPRESSOR power input 1.5° water
					flow	motor	
IB	kg	≙ kW	kW	kW	m³/h	kW	No. x kW
60	800	74	4,6	23	14	1,1	2
100	1300	121	7,6	38	7	1,1	3,6
120	1500	140	8,3	44	8	1,1	3,6
180	2200	205	12	67	12	1,1	5,6
300	3700	344	20	116	20	3	9,6
400	4800	446	27	145	25	3	1 x 5,6 1 x 7,3
500	5800	540	32	182	31	3	2 x 7,3
600	6900	642	39	212	36	4	2 x 9,6
700	8000	744	47	244	42	5,5	3 x 7,3

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

AGITATOR(S)	CURRENT 380V max.	TANK VOLUME	DIMENSIONS inclusive refrigeration unit(s) length x width x height	MASS approx.		CONNECTIONS ISO R7	
				machine	operating	inlet	outlet
No. x kW	A	litre	mm	kg		mm	NB
-	10	1800	2770 x 770 x 2000	900	2700	50	32
2,2	19	4800	3805 x 1305 x 2200	1400	6200	50	32
2,2	20	4800		1500	6300	50	32
2,2	27	5900	5055 x 1305 x 2300	2000	7900	50	32
2,2	44	10.200	6310 x 1605 x 2500	2800	13000	50	40
2 x 2,2	58	12900	6310 x 1990 x 2500	3500	16400	2 x 50	40
2 x 2,2	72	17100	6310 x 2380 x 2500	4200	21300	2 x 50	40
4 x 2,2	90	18400	6310 x 2765 x 2500	5000	23400	2 x 50	40
4 x 2,2	100	21100	6310 x 3150 x 2500	5500	26.600	2 x 50	50

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, oxydization and warming-up of the ice water occuring when compressed air is used for agitation.
- All components manufactured or sourced in South Africa.

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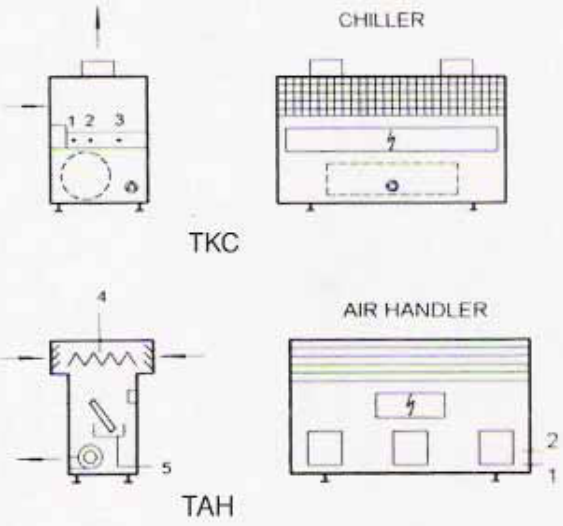
WATER CHILLERS Type TKC
AIR HANDLING TYPE TAH

TKC 33000

Water Chillers and matching Chilled Water Air Handling Units.

TAH 7500



— = Air Flow
= Water Pump
= Control Panel

1 = Return Water
2 = Supply Water
3 = Make Up Water
4 = Filter
5 = Drain

TAH 22500

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.

ISO 9001 CERT NO: 110842 QS 18042014 CB 15

Telecommunication Cooling Systems

ENSIONS AND SPECIFICATIONS
ON WITHOUT NOTICE)

WATER CHILLERS

capacity mbient & eaving °C		Fan(s)	Condenser power input max.	Tank volume	Water flow at 150 kPa pump head	Standard pump	Current max.	Dimensions width x length x height	Mass approx.		W
11	16								machine	operating	I O
W		No.xkW-Ømm	kW	litre	m³/h	kW	A	mm	Kg		
3.5	15.8	1x0.64-500	4.4	200	2	0.37	13	920x1430x1850	200	400	3
29	34	2x0.64-500	10	300	3.9	0.37	24	920x1950x2200	500	800	3
43	52	3x0.64-500	15	400	5.8	0.75	38	920x2460x2200	850	1250	4

AIR HANDLING UNITS

capacity water at 5°C	Centrifugal fan(s)	Water flow	Current max.	Air Temp.	Dimensions width x length height
W	No.x kW	m³/h	A	°C	mm
7.5	1x1.1	2	6	adjustable	1200x700x2000
15	2x1.1	4	12	adjustable	1200x1400x2000
22.5	3x1.1	6	18	adjustable	1200x2100x2000

S (CAPACITY)

ompressor.
) with tubes aluminium fins.
n(s)
tank.
Heat Exchanger.
entrifugal pump.
l solenoid valve/ sight
valve.
incorporating:

r(s)
nd overload(s)
ti-cycle timer
anti-cycle timer & LP by-pass
ch 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 U

- Chilled water coil with copper tubes alum
- 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
- Condenser with copper fins.
- Suction and discharge gauge.
- Heating.

FEATURES

- Units are self-contained and compact for e
- Test run before delivery.
- Textured electrostatic powder coating finis
- Large water tank to reduce stop/starts of c
- Units are designed for continuous operatio ambient temperature.
- Manufactured in South Africa.

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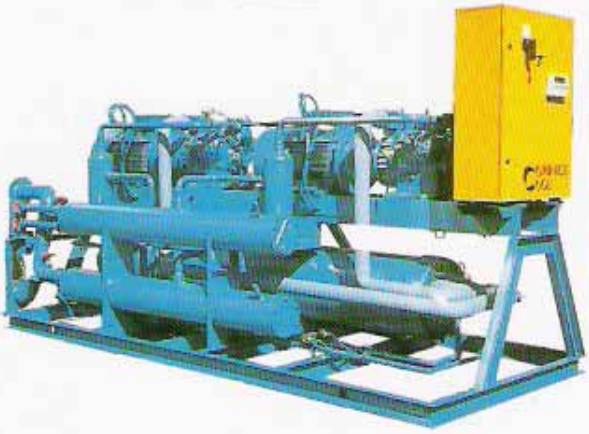
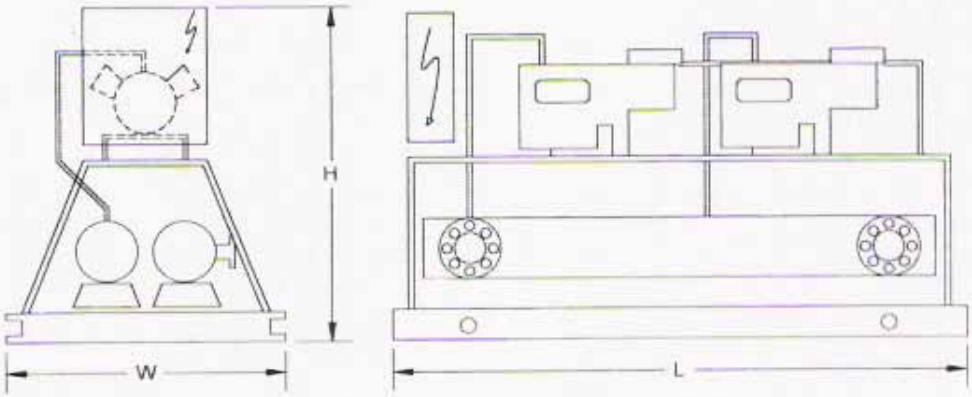
WATER CHILLERS Type SCW

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.





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(Shell and Tube Chillers)

DIMENSIONS AND SPECIFICATIONS

LTERATION WITHOUT NOTICE)

ooling capacity sed on 11°C to °C and tower er 29°C to 35°C	No. of compressors	Compressor power input max.	Tank volume	Current max.	Evaporator circuit	Dimensions width x length x height	Steps unloading	Weight dry	Water co Condenser
		kW	m³/h	Amps		mm		kg	mm
70	1	22	12	53	single	1100 x 2500 x 1650	2	750	50
105	1	30	18	78	single	1100 x 2500 x 1650	3	900	65
140	2	2 x 22	24	106	double	1100 x 3000 x 1800	4	1050	2 x 50
170	1	52	29	118	single	1100 x 3000 x 1800	3	1250	65
210	2	2 x 30	36	156	double	1100 x 3500 x 1800	4	1600	2 x 65
340	2	2 x52	58	236	double	1200 x 3500 x 1800	6	2100	2 x 65
510	3	3 x52	87	354	triple	1200 x 3500 x 1800	6	3000	3 x 65
680	4	4 x52	116	464	2 x double	1200 x 3500 x 1800	8	4000	4 x 65

OMPONENTS

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 condense pump.

OPTIONS

- Voltage monitor.
- Head pressure control.

FEATURES

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

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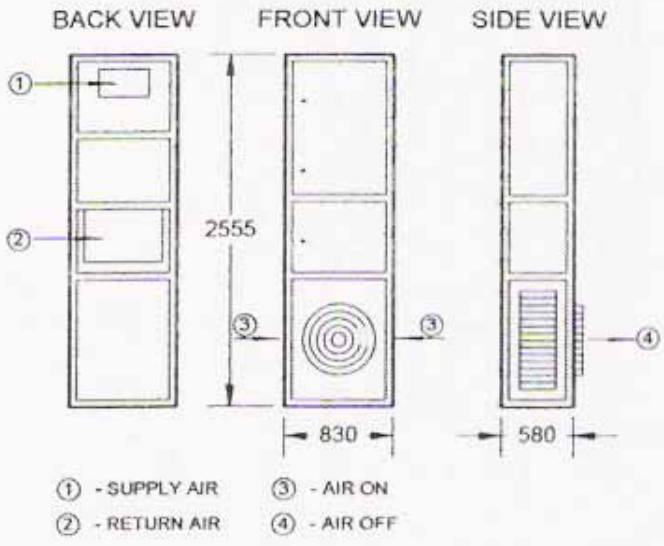
AIR CONDITIONING UNITS (CLIP-ON)

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.



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Telecommunication Cooling Systems

NSIONS AND SPECIFICATIONS

N WITHOUT NOTICE)

	Cooling capacity	Heating capacity	Condenser fan	Compressor power input max.	Evaporator fan	Air flow supply	Filter size	Current max	Dimension width x leng height
	kW	kW	kW	kW	kW	m³/s	mm	A	mm
	10.3	3	0.57	3	1.1	0.61	495x20x50	20	580 x 830 x 25
	10.3	3	0.57	3	1.1	0.61	495x620x50	20	580 x 830 x 25
	13.5	3	0.64	3.5	1.3	0.79	495x620x50	22	580 x 830 x 25

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

ENTS

ing compressor.
coil with copper aluminium fins.
r coil with copper aluminium fins.
enser fan.
l evaporator fan.
nk.
panel
lator
reaker, and fuses
rs and overloads
sor anti-cycle timer
by pass timer.
tch.
tion indication

control thermostat
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-co compact for eas
- Test run before
- Frame construc aluminium prof aluminium cove for easy access.
- Textured electro coating finish.
- Units are design continuous oper ambient temper
- By pass air dam
- Washable air fil
- Clip-on fixing b


WTT - Wilchwitzer Thermo - Technik

WTT-Wilchwitzer Thermo-Technik GmbH
Remsaer Str. 2a, D-04603 Nobitz-Wilchwitz (Germany)
Tel. 03447/5539-0
Fax 03447/5539-30

EUROCERT
DIN EN ISO 9001
ZQM07397-00

GELÖTETE PLATTENWÄRME-ÜBERTRAGER

Aufbau und Wirkungsweise

Die WTT-Plattenwärmeübertrager bestehen aus einer Anzahl geprägter Edelstahlplatten, die in einem speziellen Lötverfahren miteinander verbunden werden. Beim Zusammenfügen wird jede zweite Platte um 180 Grad in der Ebene gedreht, wodurch sich zwei voneinander getrennte Strömungsräume bilden, in denen die beteiligten Medien im Gegenstrom geführt werden. Die Prägung der Platten verursacht einen hochturbulenten Durchfluß. Dies ermöglicht eine sehr effektive Wärmeübertragung schon bei geringen Volumenströmen.

Einsatzgebiete

Typische Einsatzgebiete für WTT-Plattenwärmeübertrager sind die Haustechnik (Warmwasserbereitung, Fußbodenheizung), Fernwärmeübergabestationen, Verdampfer(AE)/Kondensator in der Kältetechnik, Industriekühlung (Ölkühler).

Auslegung

Durch unser ausgereiftes Computerprogramm gewährleisten wir eine optimale Auslegung für Ihren Anwendungsbereich.

Isolierung & Anschlußverschraubungen

WTT-Plattenwärmeübertrager können komplett mit Isolierung (PU-Hartschaum) und Anschlußverschraubung (wahlweise mit Löt-, Gewinde- oder Schweißeinsatz) bestellt werden.

Werkstoffe:

Platten: 1.4401 Lot: Kupfer (WP, AE)
Nickel (NP)

Betriebsbedingungen

max. Betriebsdruck: 40 bar (WP,AE)
16 bar (NP)
max. Betriebstemp.: 195° C

Wärmeleistung:

bis 2000 kW

BRAZED PLATE HEAT EXCHANGERS

Construction and operation

WTT brazed plate heat exchangers consist of a pack of refined steel plates which are brazed together in a furnace. When assembling the pack every second plate is turned 180° in the plane. There are two separate flow channels with two mediums in counter current. The design of the plates creates a high turbulence. The results are outstanding heat transfer properties also at small flows. All the components of the exchanger take part in the heat transfer.

Application

Typical applications include:
heating, hot-water producing plant, floor heating, compact district heating stations, evaporators (AE)/condensers in heat pumps and liquid chillers, oil-cooler.

Customer support

We will naturally help you optimize a WTT brazed heat exchanger for any of your applications. This work is performed with the assistence of our computer program.

Isolation & connection

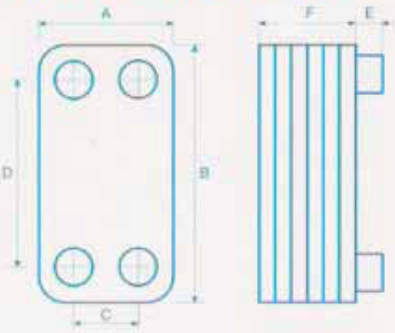
WTT brazed plate heat exchanger may be ordered with isolation (PUR or Aeroflex)
and fittings (female, external thread or welding connection fittings).

Materials:

Plates: 1.4401 Solder: Copper (WP,AE)
Nickel (NP)

Performance:

Operating pressure: max. 40 bar (WP,AE)
16 bar (NP)
Operating temperature: max. 195°C
Capacity per unit: up to 2000 kW



ECHANGEURS THERMIQUES A PLAQUES BRASEES

Conception et Fonctionnement

Les échangeurs thermiques à plaques brasées WTT sont constitués par un empilage de plaques matricées en inox qui sont soudées entre-elles par un procédé spécial de brasage au cuivre. A l'empilage une plaque sur deux est inversée à 180 degrés afin de créer deux zones de circulations séparées dans lesquelles les liquides ou les gaz utilisés circuleront en sens contraires. Le matriçage spécial des plaques engendre des flux à hautes turbulences ce qui permet un échange thermique extrêmement performant même dans les cas de faibles courants circulatoires.

Utilisations

Utilisations typiques des échangeurs thermiques WTT à plaques brasées:
production d'eau chaude sanitaire, chauffage par le sol, stations de chauffage à distance, condensateurs/évaporateurs (AE) dans la technique du froid, systèmes de refoidissement (radiateurs à huile), divers processus industriels ect.

Definition des échangeurs

Un logiciel performant nous permet de déterminer de façon optimale les caractéristiques de l'échangeur le mieux adapté à vos besoins.

Isolation et raccordements

Les échangeurs thermiques WTT peuvent être livrés complets avec leur isolation soit en mousse de polyuréthane (PU) soit en modèle Aéroflex ainsi qu' avec leurs raccordements soudés ou brasés.

Matériaux:

Plaques en inox: 1.4401,
brasure au cuivre (WP, AE)
Nickel (NP)

Performances:

Pression max. d'utilisation: 40 bar (WP,AE)
16 bar (NP)
Température max. d'utilisation: 195°C

Puissances:

Jusqu'à 2000 kW

Design-Werbeteam Hämisch 034241/50564

Technische Daten
Technical Data
Caracteristiques techniques

Type Type Modèle	A	B	C	D	E	F	Anschluß Connection Raccord	max. Plattenzahl (N) No. of plates max. (N) Nb. de Plaques max. (N)	Volumen/Kanal (Liter) Volume/Channel (litre) Volume/canal(en litres)	Leergewicht (kg) Weight empty(kg) Poids à vide kg
	mm									
WP 1	73	203	40	170	20	7+2,3xN	G 1/2" / ø 22	30	0,02	0,75+0,05xN
NP, WP 2	89	230	43	182	20	7+2,3xN	G 3/4" / ø 22	50	0,03	1,1+0,06xN
NP, WP 22	89	325	43	279	20	7+2,3xN	G 3/4" / ø 22	30	0,04	1,3+0,08xN
NP, WP 3	124	171	73	120	20	7+2,3xN	G 1" / ø 28	50	0,03	1,2+0,06xN
NP, WP 4	124	332	73	281	20	7+2,3xN	G 1" / ø 28	100	0,06	1,6+0,12xN
AE, NP, WP 5	124	529	73	478	20	7+2,3xN	G 1" / ø 35	100	0,095	2,0+0,24xN
AE, WP 7	269	529	200	460	95	7+2,3xN	DN 40 / ø 54	150	0,226	5,5+0,6xN
WP 8	269	529	161	421	62	7+2,4xN	DN 65 / ø 70	150	0,22	7,5+0,7xN
WP9	269	798	161	690	62	7+2,4xN	DN 65 / ø 70	200	0,399	11,5+0,75xN