

NOVAtech

Intelligent Cooling Solutions



AIR COOLED CHILLER UNIT - WASSERKÜHLGERÄTE - БЛОКИ ВОДЯНОГО ОХЛАЖДЕНИЯ





REFRIGERATION CIRCUIT

- One or twin independent refrigeration circuits. Compressors work in full or part load automatically according to heat load.
- Mini and midi models are equipped with scroll type highly efficient compressors. Maxi and Master models are equipped with 4 multi tandem scroll compressors.



- Condenser surface is generously sized for comfortable operation at higher ambient temperatures.
- Electronic expansion valve meters, proper amount of refrigerant flow to evaporator according to suction gas pressure and temperature.
- Low pressure and high pressure gas gauges.
- Maxi and master models condenser fins are coated with gold epoxy to increase corrosion resistance.



KÜHLKREIS

- Selbstständige Einzel- oder Doppel kühlkreislauf. Die Verdichter arbeiten je nach Wärmebelastung voll- oder teilautomatisch.
- Mini- und Midi-Modelle sind mit hocheffizienten Kompressoren vom Typ Scroll ausgestattet. Maxi- und Master-Modelle sind mit 4 Multi-Tandem-Kompressoren ausgestattet.
- Elektronische Expansionsventil-Messgeräte sorgen für die richtige Menge an Kältemittel zum Verdampfer, je nach Sauggasdruck und Temperatur.
- Damit bei erhöhten Aussen temperaturen die erwartete Kühlleistung erreicht wird, werden die Oberflächen der Kondensatoren maximiert.
- Am Gerät sind Manometer vorhanden, welche den Gasdruck anzeigen.
- Die Kühlerlamellen von Maxi- und Master-Modellen sind mit Gold-Epoxidharz beschichtet, um die Korrosionsbeständigkeit zu erhöhen.



ОХЛАЖДАЮЩИЕ СИСТЕМЫ

- Одна или две независимые друг от друга системы охлаждения являются стандартом. Компрессор полностью или частично будет запускаться автоматически, в зависимости от тепловой нагрузки.
- МИНИ и МИДИ модели оборудованы спирального типа высокоэффективных компрессоров. МАКСИ и МАСТЕР модели оборудованы с 4 тандемных компрессоров.
- Охлаждающая система состоит из высокоэффективной оболочки и трубки испарителя, конденсатора, осушителя, смотрового стекла, бензобака, жидкого держателя и систем контроля.
- Электронный расширительный клапан компрессора обеспечивает работу системы путем передачи соответствующего количества хладагента из газопровода в испарители, в зависимости от температуры.
- Поверхности конденсатора являются достаточно большими, чтобы гарантировать ожидаемую мощность при высокой температуре окружающего воздуха. Устройство оснащено манометрами, показывающими давление газа.
- Ребрах конденсатора модели МАКСИ и МАСТЕР покрыты золотом эпокси для повышения коррозионной стойкости.



MECHANICAL

- Sturdy and powerful high capacity centrifugal pump.
 - Stainless steel and insulated water tank.
- 
- Galvanised steel frame painted with hot electrostatic powder painting.
 - Anodised aluminum sheet to provide corrosion protection in all weather conditions.



MECHANISCHER TEIL

- Beständige Zentrifugalpumpe mit hoher Kapazität.
- Der Wassertank besteht aus Edelstahl und ist isoliert.
- Die robuste Konstruktion des Gehäuses aus verzinktem Stahl ist Pulverlackiert und gewährleistet so eine lange Haltbarkeit.
- Eloxiertes Aluminiumblech für Korrosionsschutz bei allen Witterungsbedingungen.



МЕХАНИЧЕСКАЯ ЧАСТЬ

- Используется прочный центробежный насос с высокой пропускной способностью центрифуги.
- Резервуары воды изготовлены из нержавеющей стали и изолированы.
- Окрашенный электростатической краской горячего запекания гальванизированный стальной корпус является надежной и долговечной конструкцией.
- Анодированный алюминиевый корпус для защиты от коррозии в любых погодных условиях.



CONTROL PANEL

- Compressors, fans and water pump are protected by thermal and current circuit breakers.
- Microprocessor control guarantees automatic start & stop of fans and compressors.



NTC 40

- Working temperature and all alarm information could be followed visually and audibly.
- Device parameter display and remote control operations can be performed with PC connection via RS 485 protocols.
- 3.5" TFT colour display touch screen controller has a user friendly interface.



SCHALKASTEN UND BEDIENFELD

- Kompressor, Wasserpumpe, Lüfter, Thermofühler, und der Drehstrom motor werden durch Schutzrelais geschützt.
- Die Aktivierung der Kompressoren, der gleichzeitige Betrieb, die Abschaltung des gesamten Systems im Störfall und Fehlermeldungen können parametrisch von der SPS gesteuert und überwacht werden.
- Die Funktion der Lüfter und Kompressoren wird durch eine SPS gesteuert
- Durch die RS 485 Schnittstelle können Parameter angezeigt und die Anlage ferngesteuert werden.
- Der farbige 3,5" TFT-Touchscreen-Controller verfügt über eine benutzerfreundliche Schnittstelle.



ПАНЕЛЬ УПРАВЛЕНИЯ

- Компрессор, водяной насос и контакты вентиляторов, тепловое излучение, предохранители автоматического выключения и фазы защищены при помощи реле защиты двигателя.
- Параметрический Программный Логический Контроль (ПЛК) регулирует и контролирует приведение в действие компрессора, одновременную работу устройств, остановку всей системы в случае отказа и сообщения об ошибках.
- Автоматическая остановка и начало работы вентиляторов и компрессоров гарантированно микропроцессорным управлением.
- Возможность отображения параметров прибора и дистанционное управление осуществляется путем подключения к компьютеру по протоколу RS 485.
- 3.5" TFT цветной дисплей с сенсорным экраном контроллера имеет дружелюбный интерфейс пользователя.



SAFETY

- Suction and discharge pressure switches continuously follow working pressure and stop cooling system when pressures reach critical values.
- If the water outlet temperature drops below critical level anti-freeze thermostat stops refrigeration circuit.
- Unit has a protection against unstable voltage raftings (+/- %15) and phase failure.



- High and low temperature alarms.
- Safety Valve discharges refrigeration circuit when the pressure value reaches to critical level.
- Advanced microprocessor controller with alarm history function.



SICHERHEITSELEMENTE

- Die Saug- und Auslassdruckschalter folgen kontinuierlich dem Arbeitsdruck und stoppen das Kühlsystem, wenn Drücke kritische Werte erreichen.
- Wenn die Wasseraustrittstemperatur unter den kritischen Wert fällt, stoppt der Frostschutzthermostat den Kühlkreislauf.
- Die Einheiten sind gegen Spannungsverzerrung (%15) und Phasenausfall geschützt.
- Bei Hoch-und Tieftemperaturen wird ein Alarm ausgegeben.
- Ein Sicherheitsventil entleert das Kühlsystem, wenn der Druck im System kritische Werte übersteigt.
- Weiterentwickelte Mikroprozessor Steuerung mit Alarmhistorienfunktion.



БЕЗОПАСНОСТЬ

- Осуществляется постоянный мониторинг рабочего давления всасывания и нагнетания, при достижении давлением критических значений происходит остановка системы.
- Термостат замерзания, находящийся в системе, останавливает систему при снижении температуры на выходе ниже уровня нижнего предела.
- Единицы искажения напряжения (%15) и фазы имеют защиту против дефицита.
- Имеется сигнализатор перегрева для низких и высоких температур.
- При достижении давления в системе критического уровня, предохранительный клапан выбрасывает охлаждающий газ.
- Контроллер с функцией истории сигнализации.

Introduction



35 Years Experience in Temperature Control Systems

With over 35 years of experience in designing cooling systems, AytekChillers specializes in water chilling systems for industrial and commercial process cooling applications. Today, Aytek offers a full range of technologically advanced cooling and tempering systems (ISO 9001 certification from the TUV in 2013) with an excellent quality-price ratio, enabling us to be the market leader in Industrial Cooling in Turkey. More than 7000 chillers sold in Turkey and Export Markets, makes Aytek a well known brand with a successful sales organization, an extensive network of partners and service centers and constantly growing turnover. We are out to prove that an effective cooling system that is less expensive can provide high production output with an optimum energy consumption throughout its operating life. We welcome your cooling challenge and will assist you to find out system loads and project priorities, then select the proper cooling system that is suitable for the project

Aytek Soğutma İç ve Dış Ticaret A.Ş.

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NOVATECH

Multi Tandem Water Cooler

Smart Eco User Friendly Design

Product Info

From 2 to 500 kw air-cooled scroll chiller model YNTC is factory assembled, charged and designed for indoor-outdoor use in ambient temperatures FROM -10C to 50C. Novatech scroll chiller is equipped with compressors, condenser, fans, evaporator and controls.

The industrial-grade design for this scroll chiller is ideal for plastic,chemical,metal forming, anodizing plants,concrete batch making plants and many other applications providing water temp from -5C to 25C .

Range of Applications

- Industrial Processes
- HVAC

Features

- Single- Multi scroll chillers reduces compression to increase part load efficiencies.
- Fans – Alluminium blades,asynchronous external motor IP 54
- Reduced HFC-410A / R 454 Brefrigerant charge
- High efficiency Shell&tube or stainless steel plate type depending on the application
- New Technology anti corrosive Micro channel alluminium or gold epoxy coated copper alluminium condensers
- Hydronic module-pump and insulated buffer tank with or without options
- Improved serviceability - most major components within 18" of edge

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Design Parameters

Scope of delivery:

Design Conditions:

Electrical:	400V \pm 10%, 50Hz
Ambient temperature min.:	-10°C
Ambient temperature max.:	+47°C
Design wet bulb temperature:	+35°C
Water temperature out:	15°C - 20°C



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MAIN COMPONENTS

NOVATEC YNTC SERIES 7/8KW- 10/11KW- 15/15KW- 20/20KW- 25/25KW

AIR COOLED CHILLER

- 1 pc. Scroll Compressor  
- Shell&tube evaporator  
- Microchannel Condenser 
- 1 pc. Fan  
- Fan in the control panel
- High pressure switch with automatic reset 
- Low pressure switch manual reset 
- Flow switch 
- Antifreeze thermostat
- Phase&motor protector relay
- Compressor is protected by thermal relays and circuit breakers  
- Drier for refrigerant circuit
- Sight glass
- Low&high pressure gauge
- 1 pc Electrical Board  
- 1 pc PLC 
- Expansion valve
- Integral Water Pump  
- Integral Water Tank

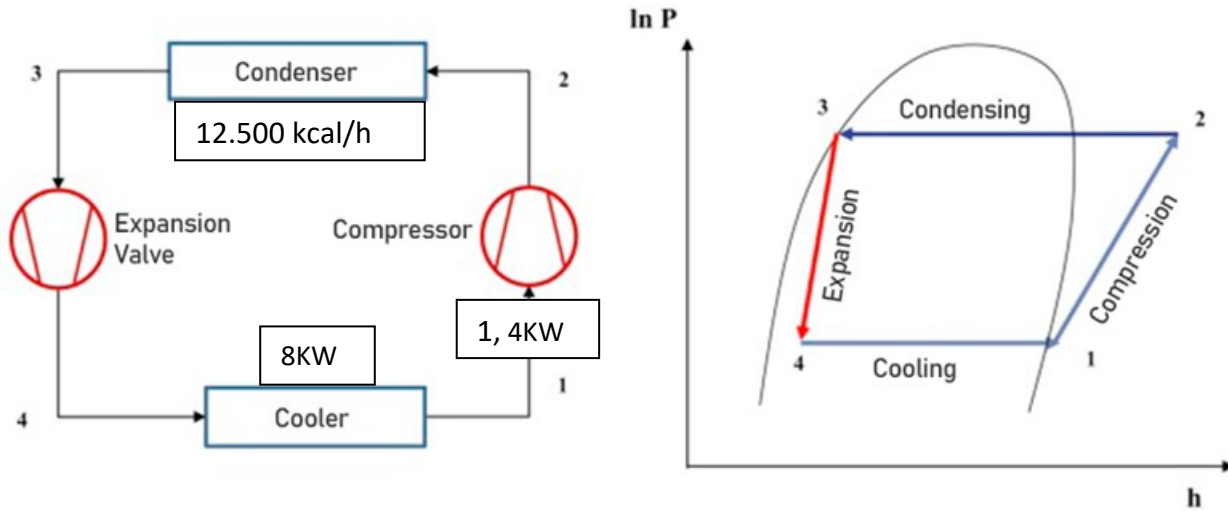
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TECHNICAL SPECIFICATIONS

Brand&Model	: NOVATECH YNTC 7/8KW	
Unit type	: Air cooled chiller	
Cooling Capacity	: 6.880	[kcal/h]
Cooling Capacity	: 8	[kw]
Unit absorbed power	: 2,1	[kw]
Energy class	: A	
Sound level	: 60	[Db(A)]



REFRIGERANT CIRCUIT

Refrigerant type	: R410A	
Refrigerant circuit	: 1	[n]

COMPRESSOR

Type	: Hermetic Scroll	
Quantity	: 1	[n]
Absorbed power	: 1,4	[kw]
Capacity control	: 1	[n]

EVAPORATOR

Type	: Shell&tube	
Fluid type	: %30 monoethylene glycol + water	$-15^{\circ}\text{C} < T_a < 5^{\circ}\text{C}$
Minimum water flow	: 1.200	[litre/h]
Pressure drop	: 50	[kPa]
Fouling factor	: 0,035	[m ² C/Kw]

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CONDENSER

Specification	:	Microchannel	
Type	:	Air cooled	
Capacity	:	12.500	[kcal/h]
Air flow	:	6.000	[m ³ /h]
Fan quantity	:	1	[n]
Fan type	:	Axial	
Fan diameter	:	500	[mm]
Total motor power	:	0,7	[kw]

CONTROL PANEL

Temperature controller	:	Microprocessor
Protection class	:	IP 44

CIRCULATING PUMP

Type	:	Centrifugal type mechanical seal	
Quantity	:	1	[n]
Max. Pressure	:	3	[bar]
Max. Flow Rate	:	1,4	[m ³ /h]

WATER TANK

Volume	:	60	[liter]
Insulation	:	Eva	
Level Indicator	:	Yes	

FRAME(YNTC6)

Width	:	630	[mm]
Length	:	990	[mm]
Height	:	1200	[mm]
Inlet-Outlet dimensions	:	1"	[φ]
Weight	:	110	[Kg]
Paint	:	RAL 7035	
Material	:	Galvanised steel frame,hot painted with polyester powder	

POWER SUPPLY

Power supply	:	3~50 Hz 400 V (+/-10%)+Grounding	[ph/Hz/V]
Control circuit	:	1~50 Hz 230 V (+/-10%)-with transformer	[ph/Hz/V]

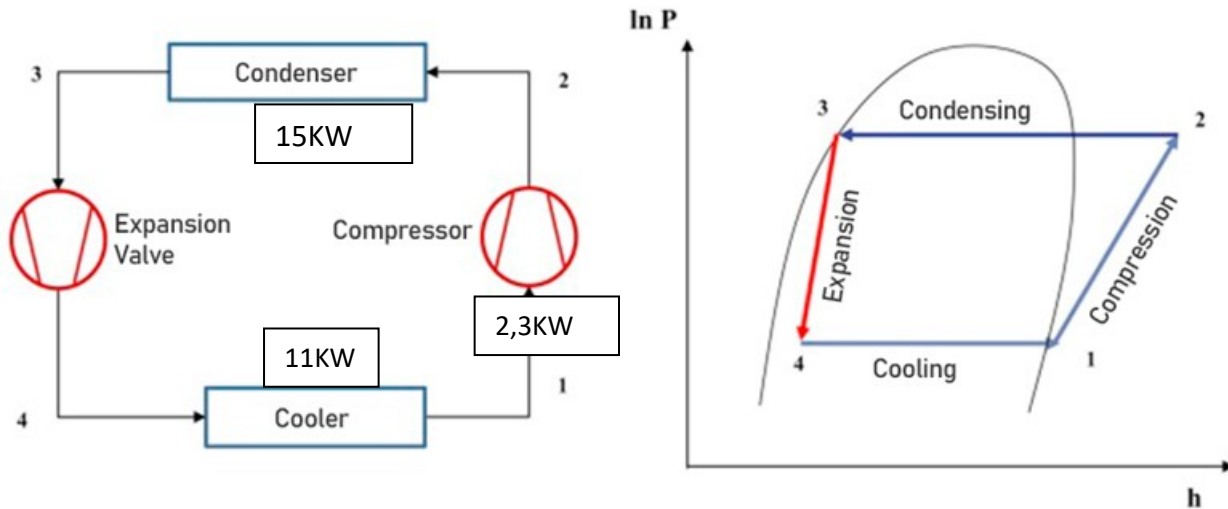
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TECHNICAL SPECIFICATIONS

Brand&Model	: NOVATECH YNTC 10/11KW	
Unit type	: Air cooled chiller	
Cooling Capacity	: 10.000	[kcal/h]
Cooling Capacity	: 11	[kw]
Unit absorbed power	: 3	[kw]
Energy class	: A	
Sound level	: 60	[dB(A)]



REFRIGERANT CIRCUIT

Refrigerant type	: R410A	
Refrigerant circuit	: 1	[n]

COMPRESSOR

Type	: Hermetic Scroll	
Quantity	: 1	[n]
Absorbed power	: 2,3	[kw]
Capacity control	: 1	n

EVAPORATOR

Type	: Shell&tube	
Fluid type	: %30 monoethylene glycol + water	$-15^{\circ}\text{C} < T_a < 5^{\circ}\text{C}$
Minimum water flow	: 2.000	[litre/h]
Pressure drop	: 50	[kPa]
Fouling factor	: 0,035	[m ² °C/kW]

CONDENSER

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Specification	: Microchannel	
Type	: Air cooled	
Capacity	: 12.500	[kcal/h]
Air flow	: 6.000	[m ³ /h]
Fan quantity	: 1	[n]
Fan type	: Axial	
Fan diameter	: 500	[mm]
Total motor power	: 0,7	[kw]

CONTROL PANEL

Temperature controller	: Microprocessor
Protection class	: IP 44

CIRCULATING PUMP

Type	: Centrifugal type mechanical seal	
Quantity	: 1	[n]
Max. Pressure	: 3	[bar]
Max. Flow Rate	: 2	[m ³ /h]

WATER TANK

Volume	: 60	[liter]
Insulation	: Eva	
Level Indicator	: Yes	

FRAME(YNTC10)

Width	: 630	[mm]
Length	: 990	[mm]
Height	: 1200	[mm]
Inlet-Outlet dimensions	: 1"	[φ]
Weight	: 190	[Kg]
Paint	: RAL 7035	
Material	: Galvanised steel frame,hot painted with polyester powder	

POWER SUPPLY

Power supply	: 3~50 Hz 400 V (+/-10%)+Grounding	[ph/Hz/V]
Control circuit	: 1~50 Hz 230 V (+/-10%)-with transformer	[ph/Hz/V]

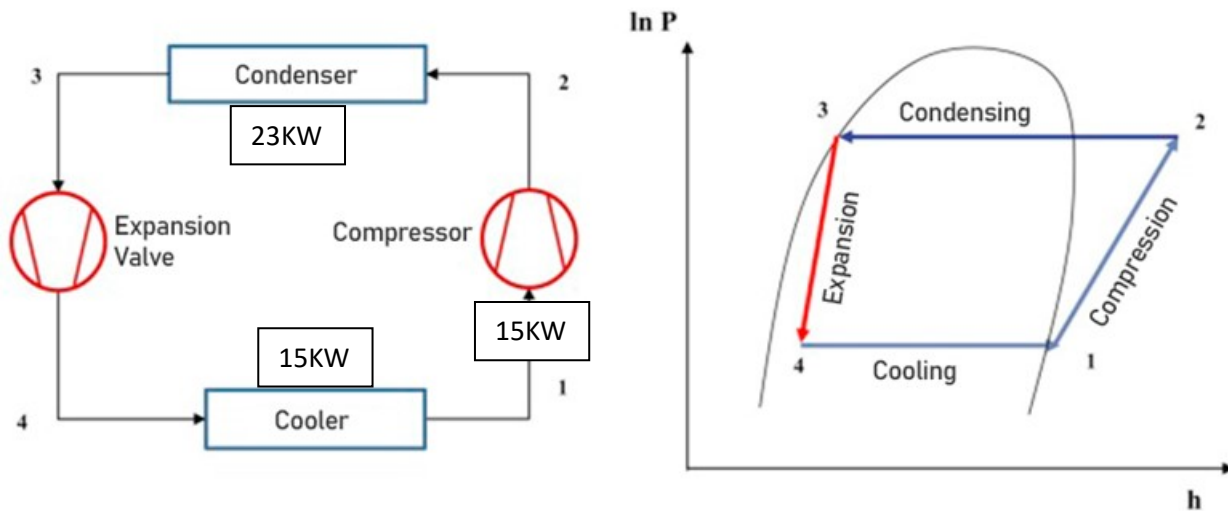
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TECHNICAL SPECIFICATIONS

Brand&Model	: NOVATECH YNTC 15/15KW	
Unit type	: Air cooled chiller	
Cooling Capacity	: 12.900	[kcal/h]
Cooling Capacity	: 15	[kw]
Unit absorbed power	: 3,75	[kw]
Energy class	: A	
Sound level	: 60	[dB(A)]



REFRIGERANT CIRCUIT

Refrigerant type	: R410A	
Refrigerant circuit	: 1	[n]

COMPRESSOR

Type	: Hermetic Scroll	
Quantity	: 1	[n]
Absorbed power	: 3,05	[kw]
Capacity control	: 0-100	[%]

EVAPORATOR

Type	: Shell&tube	
Fluid type	: %30 monoethylene glycol + water	$-15^{\circ}\text{C} < T_a < 5^{\circ}\text{C}$
Minimum water flow	: 2.000	[litre/h]
Pressure drop	: 50	[kPa]
Fouling factor	: 0,035	[m ² °C/kW]

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CONDENSER

Specification	: Microchannel	
Type	: Air cooled	
Capacity	: 20.000	[kcal/h]
Air flow	: 6.000	[m ³ /h]
Fan quantity	: 1	[n]
Fan type	: Axial	
Fan diameter	: 500	[mm]
Total motor power	: 0,7	[kw]

CONTROL PANEL

Temperature controller	: Microprocessor
Protection class	: IP 44

CIRCULATING PUMP

Type	: Centrifugal type mechanical seal	
Quantity	: 1	[n]
Max. Pressure	: 3	[bar]
Max. Flow Rate	: 100	[lit./min]

WATER TANK

Volume	: 60	[liter]
Insulation	: Eva	
Level Indicator	: Yes	

FRAME

Width	: 630	[mm]
Length	: 990	[mm]
Height	: 1200	[mm]
Inlet-Outlet dimensions	: 1"	[φ]
Weight	: 190	[Kg]
Paint	: RAL 7035	
Material	: Galvanised steel frame,hot painted with polyester powder	

POWER SUPPLY

Power supply	: 3~50 Hz 400 V (+/-10%)+Grounding	[ph/Hz/V]
Control circuit	: 1~50 Hz 230 V (+/-10%)-with transformer	[ph/Hz/V]

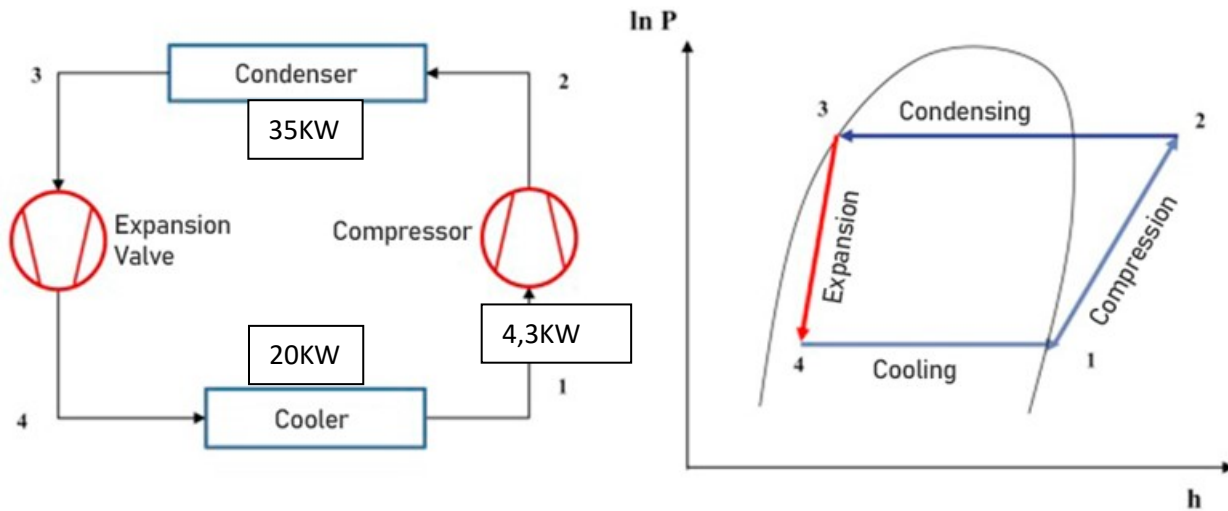
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TECHNICAL SPECIFICATIONS

Brand&Model	: NOVATECH YNTC 20/20KW	20KW
Unit type	: Air cooled chiller	
Cooling Capacity ⁽¹⁾	: 17.200	[kcal/h]
Cooling Capacity ⁽¹⁾	: 20	[kw]
Unit absorbed power	: 5	[kw]
Sound level	: 60	[dB(A)]



REFRIGERANT CIRCUIT

Refrigerant type	: R410A	
Refrigerant circuit	: 1	[n]

COMPRESSOR

Type	: Hermetic Scroll	
Quantity	: 1	[n]
Absorbed power	: 4,3	[kw]
Capacity control steps	: 1	[n]

EVAPORATOR

Type	: Shell&tube	
Fluid type	: %30 monoethylene glycol + water	-15°C < T _a < 5°C
Minimum water flow	: 3.440	[litre/h]
Pressure drop	: 50	[kPa]
Fouling factor	: 0,035	[m ² °C/kW]

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CONDENSER

Specification	:	MicroChannel	
Type	:	Air cooled	
Capacity	:	35	[kw]
Air flow	:	8.250	[m ³ /h]
Fan quantity	:	1	[n]
Fan type	:	Axial	
Fan diameter	:	630	[mm]
Total motor power	:	0,7	[kw]

CONTROL PANEL

Temperature controller	:	Microprocessor
Protection class	:	IP 54

FRAME

Width	:	860	[mm]
Length	:	1300	[mm]
Height	:	1600	[mm]
Paint	:	RAL 7035	
Material	:	Galvanised steel frame,hot painted with polyester powder	

CIRCULATING PUMP

Type	:	Centrifugal type mechanical seal	
Quantity	:	1	[n]
Max. Pressure	:	3	[bar]
Max. Flow Rate	:	3,5	[m ³ /h]

WATER TANK

Volume	:	110	[liter]
Insulation	:	Eva	
Level Indicator	:	Yes	

POWER SUPPLY

Power supply	:	3~50 Hz 400 V (+/-10%)+Grounding	[ph/Hz/V]
Control circuit	:	1~50 Hz 230 V (+/-10%)-with transformer	[ph/Hz/V]

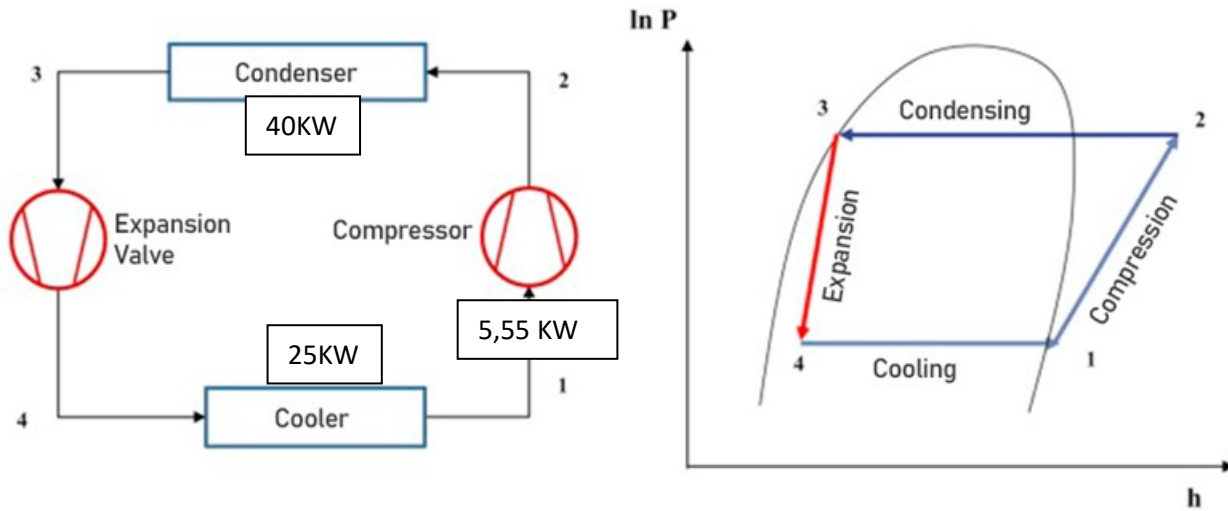
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TECHNICAL SPECIFICATIONS

Brand&Model	: NOVATECH YNTC 25/25KW	
Unit type	: Air cooled chiller	
Cooling Capacity ⁽¹⁾	: 21.500	[kcal/h]
Cooling Capacity ⁽¹⁾	: 25	[kw]
Unit absorbed power	: 6,25	[kw]
Sound level	: 60	[dB(A)]



REFRIGERANT CIRCUIT

Refrigerant type	: R410A	
Refrigerant circuit	: 1	[n]

COMPRESSOR

Type	: Hermetic Scroll	
Quantity	: 1	[n]
Absorbed power	: 5,55	[kw]
Capacity control steps	: 1	[%]

EVAPORATOR

Type	: Shell&tube	
Fluid type	: %30 monoethylene glycol + water	$-15^{\circ}\text{C} < T_a < 5^{\circ}\text{C}$
Minimum water flow	: 5.000	[litre/h]
Pressure drop	: 50	[kPa]
Fouling factor	: 0,035	[m ² C/kW]

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CONDENSER

Specification	:	MicroChannel	
Type	:	Air cooled	
Capacity	:	40	[kw]
Air flow	:	11.000	[m ³ /h]
Fan quantity	:	1	[n]
Fan type	:	Axial	
Fan diameter	:	630	[mm]
Total motor power	:	0,7	[kw]

CONTROL PANEL

Temperature controller	:	Microprocessor	
Protection class	:	IP 54	

FRAME(YNTC20)

Width	:	860	[mm]
Length	:	1300	[mm]
Height	:	1600	[mm]
Paint	:	RAL 7035	
Material	:	Galvanised steel frame,hot painted with polyester powder	

POWER SUPPLY

Power supply	:	3~50 Hz 400 V (+/-10%)+Grounding	[ph/Hz/V]
Control circuit	:	1~50 Hz 230 V (+/-10%)-with transformer	[ph/Hz/V]

CIRCULATING PUMP

Type	:	Centrifugal type mechanical seal	
Quantity	:	1	[n]
Max. Pressure	:	3	[bar]
Max. Flow Rate	:	4,3	[m ³ /h]

WATER TANK

Volume	:	110	[liter]
Insulation	:	Eva	
Level Indicator	:	Yes	

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SAFETY DEVICES

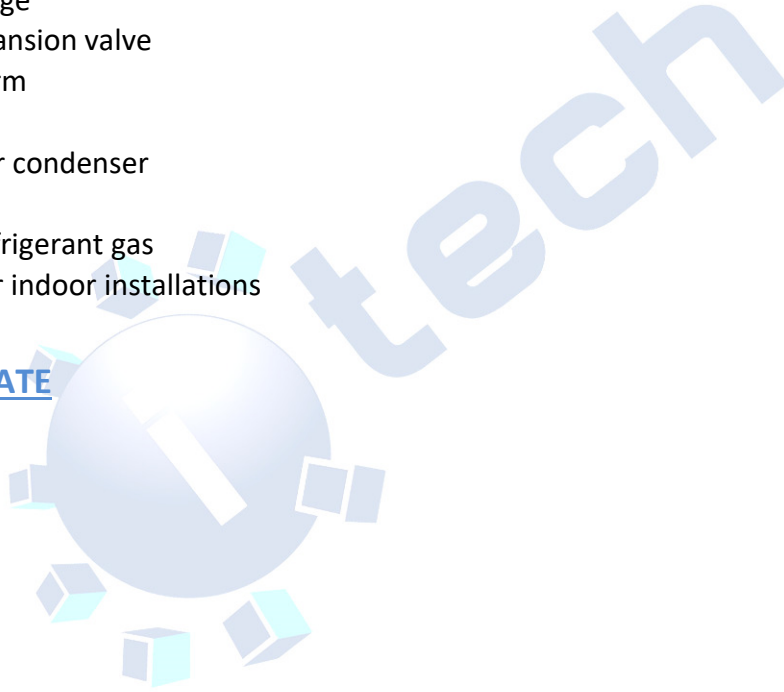
- Low pressure switch with automatic reset
- High pressure switch with manual reset
- Flow switch
- Anti-freeze thermostat
- Phase&motor protector relay
- Compressor is protected by thermal relays and circuit breakers
- Pump and fan motors are protected by thermal relays and circuit breakers

OTHER SPECIFICATIONS

- Drier for refrigerant circuit
- Sight glass for observe the refrigerant gas
- Automatic compressor rotation
- Low pressure gauge
- High pressure gauge
- Thermostatic expansion valve
- 220 V general alarm
- Remote on/off
- Protection grid for condenser
- Alarm history
- Ozone friendly refrigerant gas
- Unit is suitable for indoor installations

QUALITY CERTIFICATE

- CE
- ISO9001
- GOST-R



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