Condenser coil type CD

TTC NORGE AS

Applications

(Standard construction Cu/Al with TR 16mm or ES 12mm tubing)

TTC condenser coil type CD applications:

- condensing of refrigerants
- air heating in HVAC and process systems
- heat recovery

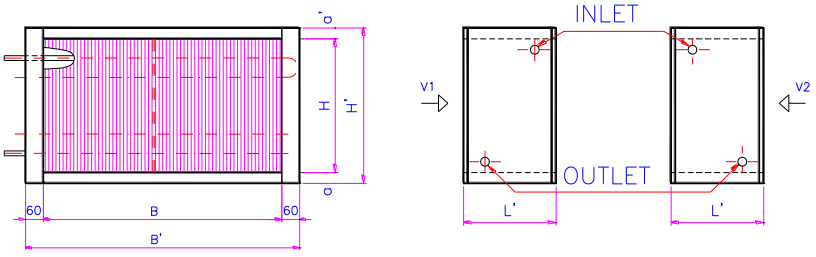
Coil nomenclature sample

CD TR 2,5 1125 1080 4R 8 V1 Cu/Al

- Cu/Al — Tube /fin material (std)
- V1 — Header position (V1 = right, V2 = left)
- 8 — Number of internal circuits
- 4R — Number of rows
- 1080 — Finned height (mm)
- 1125 — Finned length (m m)
- 2,5 — Fin Pitch (mm)
- TR — Tube configuration (TR or TP=16mm tube/ES=12mm tube)
- CD — Condenser coils for refrigerants

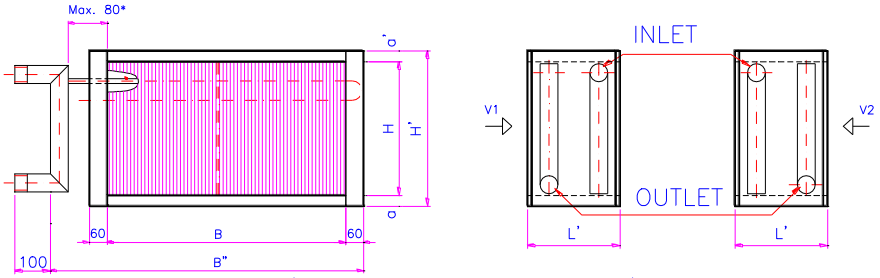
Dimensions

STANDARD CONDENSER COIL TYPE CD WITH ONE CIRCUIT



B – According to requirements
H - Multiples of 60 mm (TR)
or 33.33 mm (ES)

STANDARD CONDENSER COIL TYPE CD WITH MORE THAN ONE CIRCUIT



B - According to requirements
H – Multiples of 60 mm (TR)
or 33.33 mm (ES)

a=a'=30 if H < 720 mm L'= 30xR + 70
a=a'=60 if H>=720 mm
* if 4" header; 100 mm.
if stainless steel; 110 mm.

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Enterprise No:
NO 947 473 697 MVA

QUALITY SYSTEM CERTIFICATION DNV ISO 9001

-a member of BEIJER REF

Condenser coil type CD

Design Requirements

To enable us to design condenser coils type CD we require the following data:

Air side: Three of the following values.
- Air volume
- Air on temperature
- Air off temperature
- Duty

Refrigerant side:
- Condensing temperature
- Refrigerant type

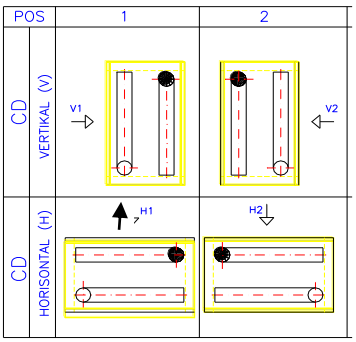
The condenser coils are designed according to required capacity and dimensions.
A data sheet is included with our offer.

Standard Connection

Standard condenser coil include a service valve and are supplied with copper tubes and headers.
Coils for use with Ammonia will be supplied with tubes and headers in either stainless steel AISI 304L, AISI 316L or Aluminium.

Connection Positions

The design of condenser coils is based upon the counterflow principle and coils need to be installed as illustrated below, to acheive the design duty.



The condenser coil are supplied fitted with a service valve and are sealed and charged with nitrogen to 1 - 2 bar.

= AIRFLOW DIRECTION
= GAS INLET
= CONDENSATE OUTLET

To obtain the maximum reliability from the coil, ensure that no stress, knocking or vibrations are transmitted to the headers of the condenser coils.

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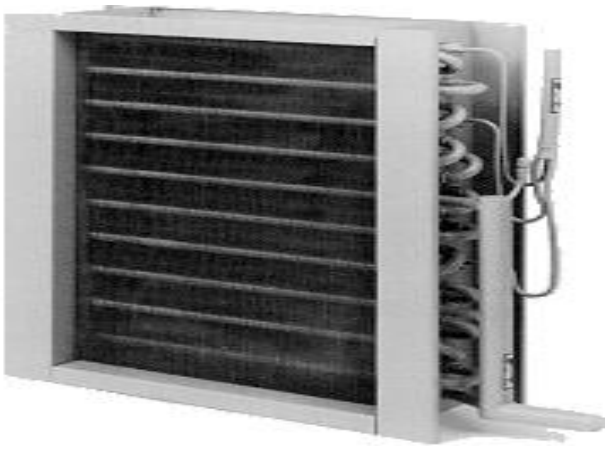
Evaporating coil type DX

TTC NORGE AS



Applications

(Standard construction Cu/Al with TR 16mm or ES 12mm tubing)

TTC evaporating coil type DX are designed for cooling of air in comfort and process systems by the use of refrigerants.

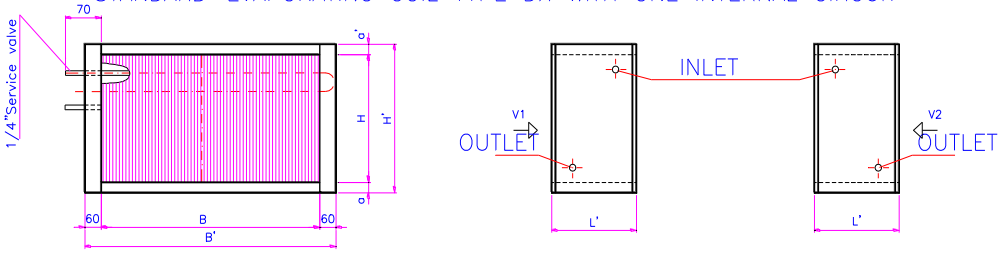
Coil nomenclature sample

DX TR 2,5 1125 1080 4R 8 V1 Cu/Al

- Cu/Al — Tube/fin material
- V1 — Header position
- 8 — Number of internal circuits
- 4R — Number of rows
- 1080 — Finned height (mm)
- 1125 — Finned length (mm)
- 2,5 — Fin pitch (mm)
- TR — Tube configuration (TR or TP=16mm tube/ES=12mm tube)
- DX — Evaporating coil for cooling using refrigerants

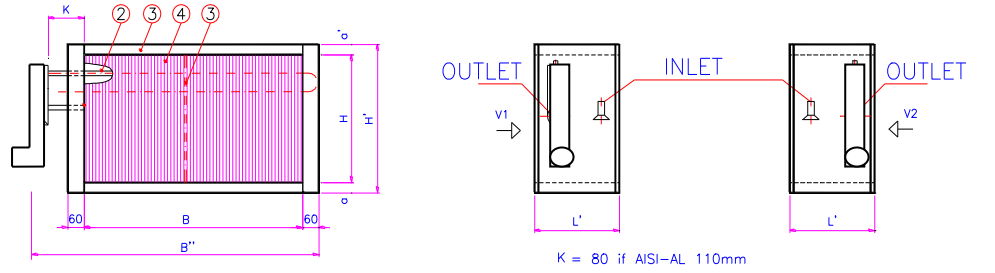
Dimensions

STANDARD–EVAPORATING COIL TYPE DX WITH ONE INTERNAL CIRCUIT



B – According to requirements
H - Multiples of 60 mm (TR), or 33.33 mm (ES)

STANDARD–EVAPORTAING COIL TYPE DX WITH GREATER THAN ONE INTERNAL CIRCUIT



B – According to requirements
H - Multiples of 60 mm (TR), or 33.33 mm (ES)

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Evaporating coil type DX

Design requirements

To enable us to design evaporating coils type DX we require the following data:

Air side: Three of the following values:
- Air volume
- Air on temperature/relative humidity
- Air off temperature/relative humidity
- Duty

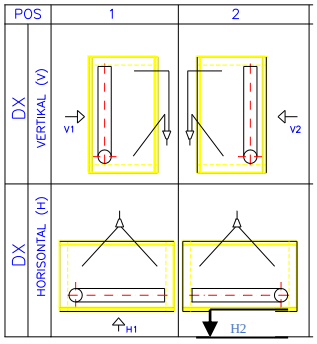
Refrigerant side:
- Evaporating temperature
- Refrigerant type

Standard connections

The evaporating coils have a service valve fitted and are sealed and charged with nitrogen to 1-2 bar. Standard evaporating temperature -5 to +10°C and condensing temperature 35°C to 45°C.

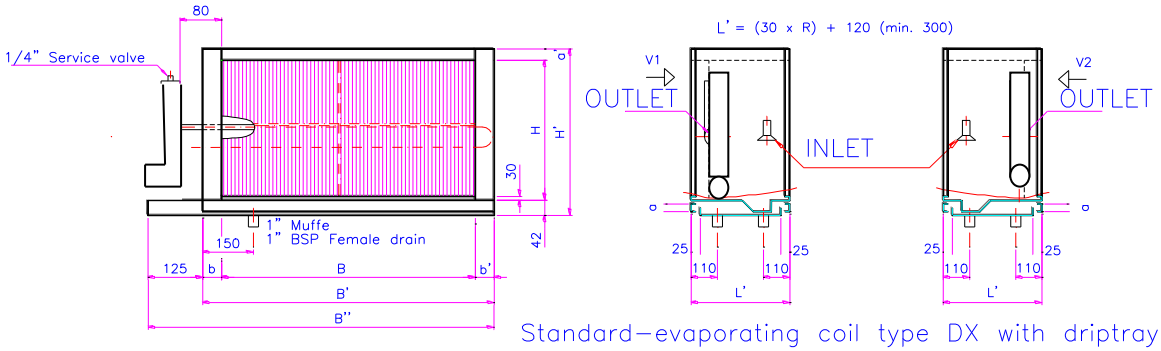
Connection positions

The design of evaporating coils are based upon the counter-flow principle and coils need to be installed as shown in the illustration below to achieve the design duty.



Accessories:
Drip tray to collect condensate
Droplet eliminator (air velocity > 2.5m/s)

= Air direction
= Refrigerant inlet
= Refrigerant outlet



Standard–evaporating coil type DX with driptray

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