HPH
INDUSTRIAL REFRIGERATION COMPONENTS

SERIE CV / CV SERIES

# CONDENSATORI AD ACQUA
# VERTICALI

VERTICAL WATER-COOLED CONDENSERS

## CON RICEVITORE DI LIQUIDO
WITH LIQUID RECEIVER



MODELLO RAPPRESENTATIVO / REPRESENTATIVE MODEL

## APPLICAZIONI TIPICHE / TYPICAL APPLICATIONS

**REFRIGERAZIONE COMMERCIALE**
COMMERCIAL REFRIGERATION

**BANCHI E VETRINE REFRIGERATE**
REFRIGERATED COUNTERS & DISPLAYS

**POMPE DI CALORE · RECUPERO DI CALORE**
HEAT PUMPS · HEAT RECOVERY

# PRODOTTO E APPLICAZIONI

PRODUCT AND APPLICATIONS

**I condensatori ad acqua verticali HPH con ricevitore di liquido sono progettati per la condensazione dei gas frigorigeni negli impianti di refrigerazione e condizionamento. Possono essere utilizzati anche per il recupero di calore.**

HPH vertical water-cooled condensers with liquid receiver are designed to condense refrigerant gases in refrigeration and air-conditioning systems. They can also be used for heat recovery.



Calotta in acciaio al carbonio · tubi interni in rame.
CuNi 90/10 per acqua di mare su richiesta.

Carbon-steel shell · internal copper tubes.
CuNi 90/10 for seawater on request.

## CARATTERISTICHE
CONSTRUCTION FEATURES

**RICEVITORE DI LIQUIDO INTEGRATO**
Integrated liquid receiver

**ACQUA DI POZZO O DI TORRE**
Well or cooling-tower water

## APPLICAZIONI TIPICHE / TYPICAL APPLICATIONS

### REFRIGERAZIONE COMMERCIALE
COMMERCIAL REFRIGERATION



### BANCHI FRIGORIFERI
REFRIGERATED COUNTERS



### VETRINE REFRIGERATE
REFRIGERATED DISPLAY CASES



### RECUPERO DI CALORE
HEAT RECOVERY



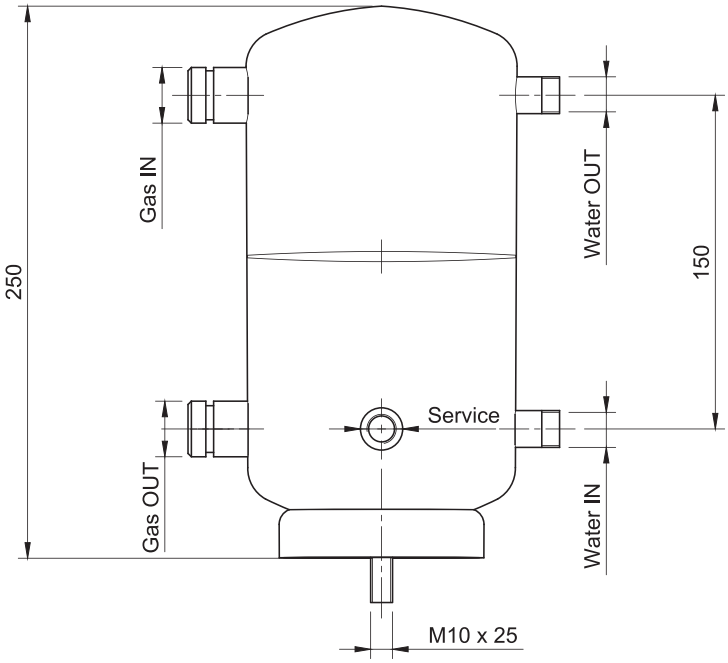
POMPE DI CALORE / HEAT PUMPS
Applicazione prevista previa selezione tecnica · Subject to technical selection

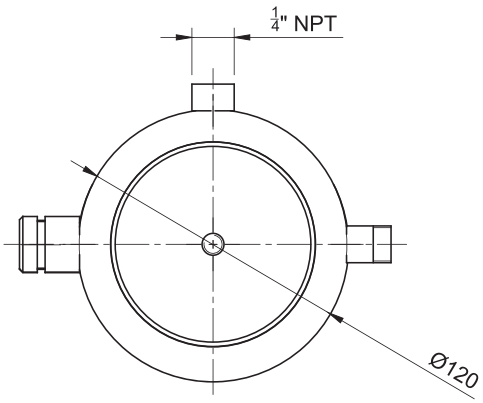
# CV3 • CV5

CONDENSATORI VERTICALI CON RICEVITORE DI LIQUIDO
VERTICAL CONDENSERS WITH LIQUID RECEIVER



## DIMENSIONI - DIMENSIONS
OFFICIAL TECHNICAL DRAWING




Riferimento geometrico: disegno CV3–CV5
Geometry reference: official CV3–CV5 drawing

### ACQUA DI POZZO
WELL WATER — R407C · 15 / 36 °C

| MODELLO MODEL | POTENZIALITÀ CAPACITY kW · kcal/h · TR | PORTATA WATER FLOW m³/h | PORTATA WATER FLOW L/min | PERDITA DI CARICO PRESSURE LOSS kPa |
|---|---|---|---|---|
| **CV3** | 2,8 kW<br>2.408 kcal/h<br>0,80 TR | 0,185 | 3,1 | 8 |
| **CV5** | 5,3 kW<br>4.558 kcal/h<br>1,51 TR | 0,351 | 5,8 | 31 |

### ACQUA DI TORRE
COOLING-TOWER WATER — R407C · 29,4 / 42,4 °C

| MODELLO MODEL | POTENZIALITÀ CAPACITY kW · kcal/h · TR | PORTATA WATER FLOW m³/h | PORTATA WATER FLOW L/min | PERDITA DI CARICO DROP kPa |
|---|---|---|---|---|
| **CV3** | 2,7 kW<br>2.322 kcal/h<br>0,77 TR | 0,352 | 5,9 | 24 |
| **CV5** | 2,8 kW<br>2.408 kcal/h<br>0,80 TR | 0,365 | 6,1 | 34 |

### VOLUMI E PESI
VOLUMES AND WEIGHTS

| MODELLO MODEL | CV3 | CV5 |
|---|---|---|
| **LATO GAS · L** GAS SIDE · L | 2,7 | 2,6 |
| **LATO ACQUA · L** WATER SIDE · L | 0,06 | 0,08 |
| **PESO · kg** WEIGHT · kg | 2,7 | 3,0 |

### CONNESSIONI
CONNECTIONS

| | |
|---|---|
| **GAS IN** GAS IN | 1" Rotalock |
| **GAS OUT** GAS OUT | 1" Rotalock |
| **ACQUA IN** WATER IN | 3/8" NPT |
| **ACQUA OUT** WATER OUT | 3/8" NPT |
| **SERVIZIO** SERVICE | 1/4" NPT |

### DATI DI PROGETTO
DESIGN DATA

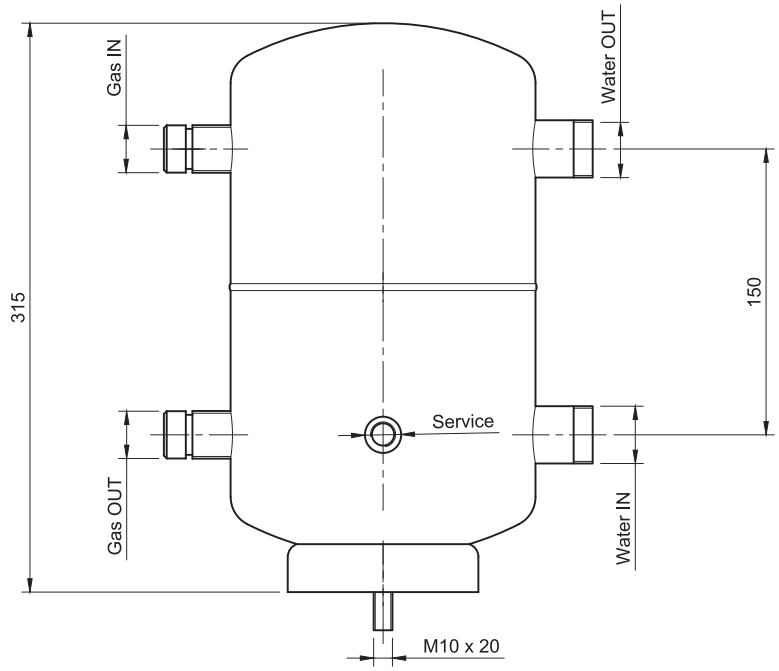
| | |
|---|---|
| **PS LATO MANTELLO** PS SHELL SIDE | 30 bar |
| **PS LATO TUBI** PS TUBE SIDE | 10 bar |
| **TEMPERATURA** DESIGN TEMPERATURE | −10 / +90 °C |

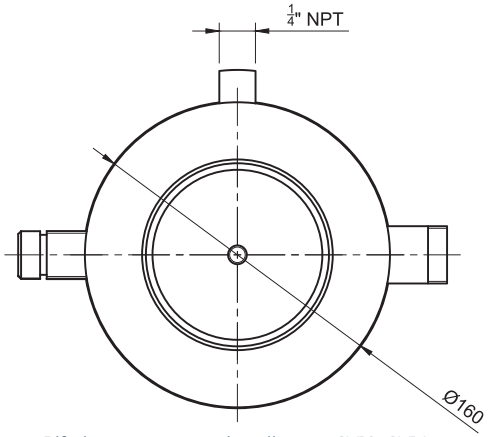


# CV10 • CV14

CONDENSATORI VERTICALI CON RICEVITORE DI LIQUIDO
VERTICAL CONDENSERS WITH LIQUID RECEIVER

## DIMENSIONI - DIMENSIONS
OFFICIAL TECHNICAL DRAWING




Riferimento geometrico: disegno CV10–CV14
Geometry reference: official CV10–CV14 drawing

### ACQUA DI POZZO
WELL WATER — R407C · 15 / 36 °C

| MODELLO MODEL | POTENZIALITÀ CAPACITY kW · kcal/h · TR | PORTATA WATER FLOW m³/h | PORTATA WATER FLOW L/min | PERDITA DI CARICO PRESSURE LOSS kPa |
|---|---|---|---|---|
| **CV10** | 10,5 kW<br>9.030 kcal/h<br>3,00 TR | 0,695 | 11,6 | 31 |
| **CV14** | 14,5 kW<br>12.470 kcal/h<br>4,12 TR | 0,859 | 14,31 | 27 |

### ACQUA DI TORRE
COOLING-TOWER WATER — R407C · 29,4 / 42,4 °C

| MODELLO MODEL | POTENZIALITÀ CAPACITY kW · kcal/h · TR | PORTATA WATER FLOW m³/h | PORTATA WATER FLOW L/min | PERDITA DI CARICO DROP kPa |
|---|---|---|---|---|
| **CV10** | 5,6 kW<br>4.816 kcal/h<br>1,59 TR | 0,73 | 12,2 | 34 |
| **CV14** | 8,2 kW<br>7.052 kcal/h<br>2,33 TR | 1,07 | 17,8 | 32 |

### VOLUMI E PESI
VOLUMES AND WEIGHTS

| MODELLO MODEL | CV10 | CV14 |
|---|---|---|
| **LATO GAS · L** GAS SIDE · L | 5,1 | 4,9 |
| **LATO ACQUA · L** WATER SIDE · L | 0,15 | 0,23 |
| **PESO · kg** WEIGHT · kg | 5,5 | 6,0 |

### CONNESSIONI
CONNECTIONS

| | |
|---|---|
| **GAS IN** GAS IN | 1" Rotalock |
| **GAS OUT** GAS OUT | 1" Rotalock |
| **ACQUA IN** WATER IN | 1" NPT |
| **ACQUA OUT** WATER OUT | 1" NPT |
| **SERVIZIO** SERVICE | 1/4" NPT |

### DATI DI PROGETTO
DESIGN DATA

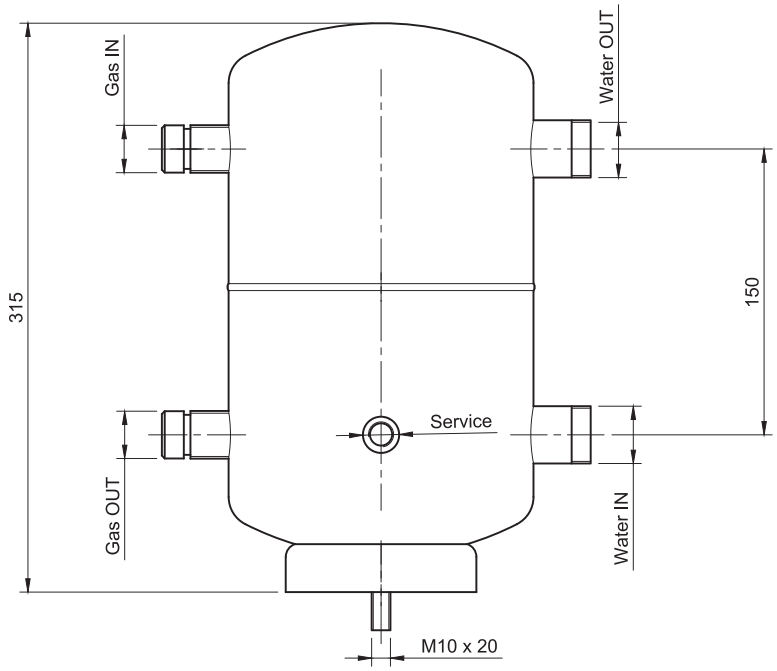
| | |
|---|---|
| **PS LATO MANTELLO** PS SHELL SIDE | 30 bar |
| **PS LATO TUBI** PS TUBE SIDE | 10 bar |
| **TEMPERATURA** DESIGN TEMPERATURE | -10 / +90 °C |

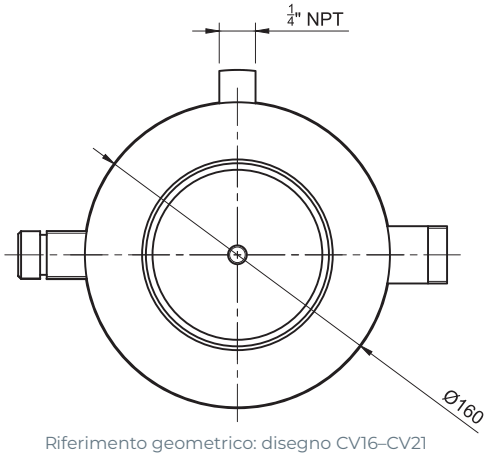


# CV16 • CV21

CONDENSATORI VERTICALI CON RICEVITORE DI LIQUIDO
VERTICAL CONDENSERS WITH LIQUID RECEIVER

## DIMENSIONI - DIMENSIONS
OFFICIAL TECHNICAL DRAWING




Riferimento geometrico: disegno CV16–CV21
Geometry reference: official CV16–CV21 drawing

### ACQUA DI POZZO
WELL WATER — R407C · 15 / 36 °C

| MODELLO MODEL | POTENZIALITÀ CAPACITY kW · kcal/h · TR | PORTATA WATER FLOW m³/h | PORTATA WATER FLOW L/min | PERDITA DI CARICO PRESSURE LOSS kPa |
|---|---|---|---|---|
| **CV16** | 16,0 kW<br>13.760 kcal/h<br>4,55 TR | 1,058 | 17,6 | 39,6 |
| **CV21** | 21,3 kW<br>18.318 kcal/h<br>6,06 TR | 1,41 | 23,5 | 43 |

### ACQUA DI TORRE
COOLING-TOWER WATER — R407C · 29,4 / 42,4 °C

| MODELLO MODEL | POTENZIALITÀ CAPACITY kW · kcal/h · TR | PORTATA WATER FLOW m³/h | PORTATA WATER FLOW L/min | PERDITA DI CARICO DROP kPa |
|---|---|---|---|---|
| **CV16** | 8,3 kW<br>7.138 kcal/h<br>2,36 TR | 1,082 | 18,0 | 41 |
| **CV21** | 11,2 kW<br>9.632 kcal/h<br>3,18 TR | 1,46 | 24,3 | 42 |

### VOLUMI E PESI
VOLUMES AND WEIGHTS

| MODELLO MODEL | CV16 | CV21 |
|---|---|---|
| **LATO GAS · L** GAS SIDE · L | 4,8 | 4,65 |
| **LATO ACQUA · L** WATER SIDE · L | 0,29 | 0,38 |
| **PESO · kg** WEIGHT · kg | 6,5 | 7,0 |

### CONNESSIONI
CONNECTIONS

| | |
|---|---|
| **GAS IN** GAS IN | 1 1/4" Rotalock |
| **GAS OUT** GAS OUT | 1" Rotalock |
| **ACQUA IN** WATER IN | 1" NPT |
| **ACQUA OUT** WATER OUT | 1" NPT |
| **SERVIZIO** SERVICE | 1/4" NPT |

### DATI DI PROGETTO
DESIGN DATA

| | |
|---|---|
| **PS LATO MANTELLO** PS SHELL SIDE | 30 bar |
| **PS LATO TUBI** PS TUBE SIDE | 10 bar |
| **TEMPERATURA** DESIGN TEMPERATURE | –10 / +90 °C |

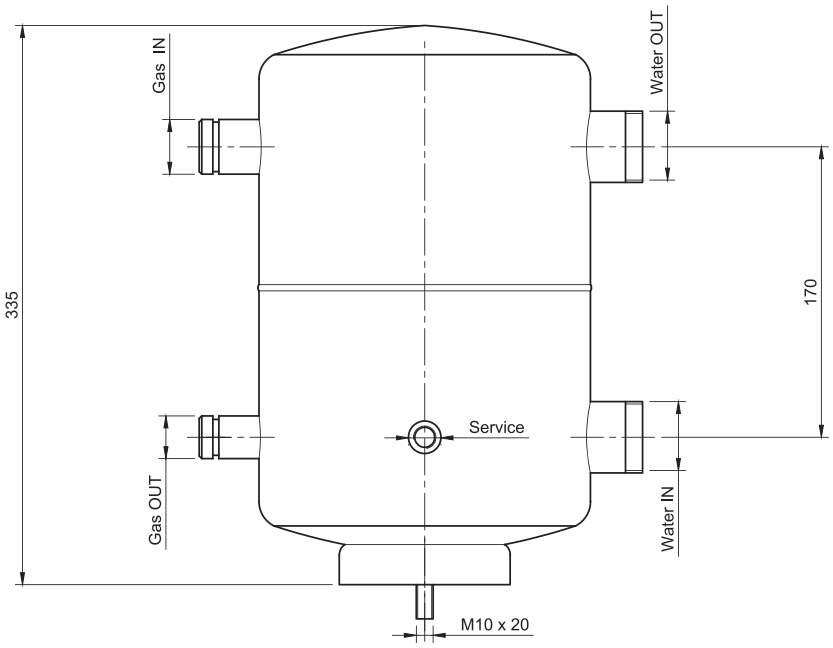


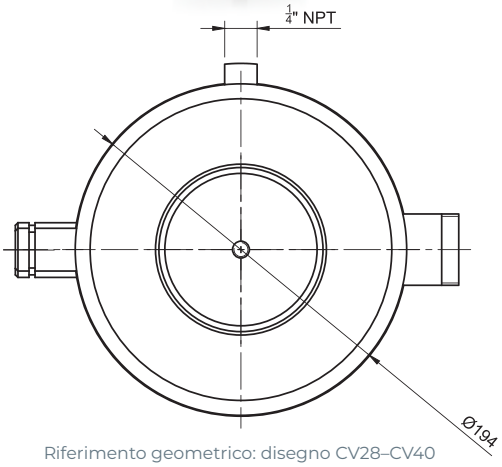
# CV28 • CV40

CONDENSATORI VERTICALI CON RICEVITORE DI LIQUIDO
VERTICAL CONDENSERS WITH LIQUID RECEIVER

## DIMENSIONI - DIMENSIONS

OFFICIAL TECHNICAL DRAWING




Riferimento geometrico: disegno CV28–CV40
Geometry reference: official CV28–CV40 drawing

### ACQUA DI POZZO
WELL WATER — R407C · 15 / 36 °C

| MODELLO MODEL | POTENZIALITÀ CAPACITY kW · kcal/h · TR | PORTATA WATER FLOW m³/h | PORTATA WATER FLOW L/min | PERDITA DI CARICO PRESSURE LOSS kPa |
|---|---|---|---|---|
| **CV28** | 28,0 kW<br>24.080 kcal/h<br>7,96 TR | 1,85 | 30,8 | 43 |
| **CV40** | 40,0 kW<br>34.400 kcal/h<br>11,37 TR | 2,85 | 47,5 | 45 |

### ACQUA DI TORRE
COOLING-TOWER WATER — R407C · 29,4 / 42,4 °C

| MODELLO MODEL | POTENZIALITÀ CAPACITY kW · kcal/h · TR | PORTATA WATER FLOW m³/h | PORTATA WATER FLOW L/min | PERDITA DI CARICO DROP kPa |
|---|---|---|---|---|
| **CV28** | 14,0 kW<br>12.040 kcal/h<br>3,98 TR | 1,82 | 30,4 | 42 |
| **CV40** | 20,0 kW<br>17.200 kcal/h<br>5,69 TR | 2,6 | 43,4 | 43 |

### VOLUMI E PESI
VOLUMES AND WEIGHTS

| MODELLO MODEL | CV28 | CV40 |
|---|---|---|
| **LATO GAS · L**<br>GAS SIDE · L | 6,6 | 6,5 |
| **LATO ACQUA · L**<br>WATER SIDE · L | 0,48 | 0,67 |
| **PESO · kg**<br>WEIGHT · kg | 8,5 | 10,5 |

### CONNESSIONI
CONNECTIONS

| | |
|---|---|
| **GAS IN**<br>GAS IN | 1 1/4" Rotalock |
| **GAS OUT**<br>GAS OUT | 1" Rotalock |
| **ACQUA IN**<br>WATER IN | 1 1/4" NPT |
| **ACQUA OUT**<br>WATER OUT | 1 1/4" NPT |
| **SERVIZIO**<br>SERVICE | 1/4" NPT |

### DATI DI PROGETTO
DESIGN DATA

| | |
|---|---|
| **PS LATO MANTELLO**<br>PS SHELL SIDE | 30 bar |
| **PS LATO TUBI**<br>PS TUBE SIDE | 10 bar |
| **TEMPERATURA**<br>DESIGN TEMPERATURE | –10 / +90 °C |

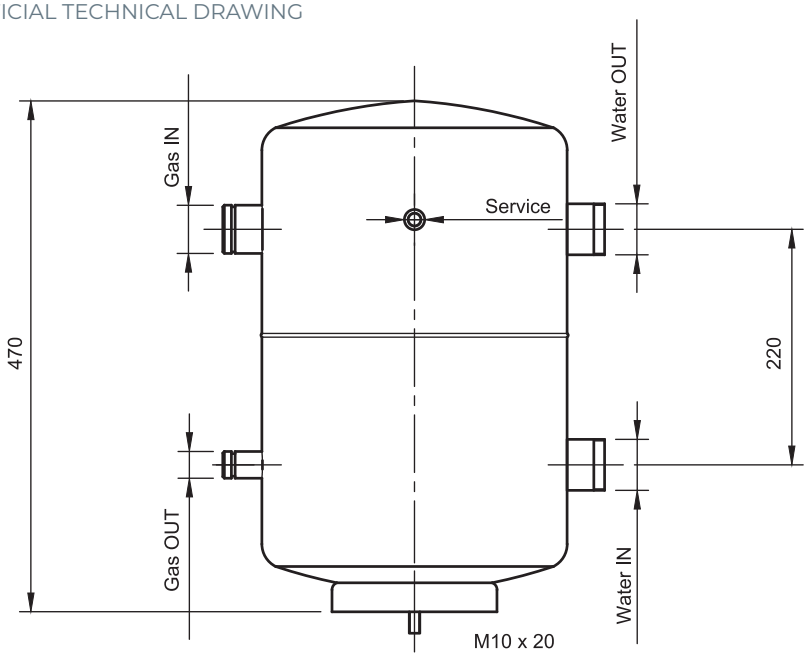


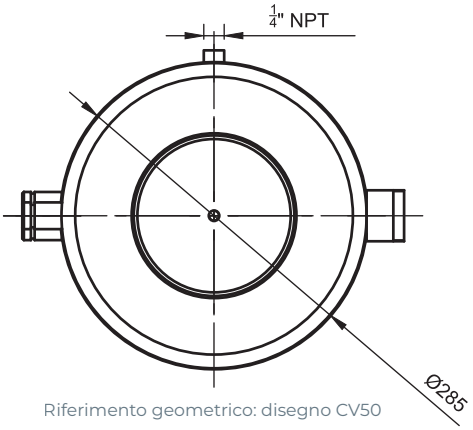
# CV50

CONDENSATORI VERTICALI CON RICEVITORE DI LIQUIDO
VERTICAL CONDENSERS WITH LIQUID RECEIVER

## DIMENSIONI - DIMENSIONS

OFFICIAL TECHNICAL DRAWING




Riferimento geometrico: disegno CV50
Geometry reference: official CV50 drawing

### ACQUA DI POZZO
WELL WATER

R407C · 15 / 36 °C

| MODELLO MODEL | POTENZIALITÀ CAPACITY kW · kcal/h · TR | PORTATA WATER FLOW m³/h | PORTATA WATER FLOW L/min | PERDITA DI CARICO PRESSURE LOSS kPa |
|---|---|---|---|---|
| **CV50** | 50,0 kW<br>43.000 kcal/h<br>14,21 TR | 2,85 | 47,5 | 69 |

### ACQUA DI TORRE
COOLING-TOWER WATER

R407C · 29,4 / 42,4 °C

| MODELLO MODEL | POTENZIALITÀ CAPACITY kW · kcal/h · TR | PORTATA WATER FLOW m³/h | PORTATA WATER FLOW L/min | PERDITA DI CARICO DROP kPa |
|---|---|---|---|---|
| **CV50** | 25,0 kW<br>21.500 kcal/h<br>7,10 TR | 2,6 | 43,4 | 65 |

### VOLUMI E PESI
VOLUMES AND WEIGHTS

| MODELLO MODEL | CV50 |
|---|---|
| LATO GAS · L<br>GAS SIDE · L | 23,8 |
| LATO ACQUA · L<br>WATER SIDE · L | 1,7 |
| PESO · kg<br>WEIGHT · kg | 22 |

### CONNESSIONI
CONNECTIONS

| | |
|---|---|
| GAS IN<br>GAS IN | 1 3/4" Rotalock |
| GAS OUT<br>GAS OUT | 1" Rotalock |
| ACQUA IN<br>WATER IN | 1 1/2" NPT |
| ACQUA OUT<br>WATER OUT | 1 1/2" NPT |
| SERVIZIO<br>SERVICE | 1/4" NPT |

### DATI DI PROGETTO
DESIGN DATA

| | |
|---|---|
| PS LATO MANTELLO<br>PS SHELL SIDE | 28 bar |
| PS LATO TUBI<br>PS TUBE SIDE | 10 bar |
| TEMPERATURA<br>DESIGN TEMPERATURE | -10 / +90 °C |

SERIE CV / CV SERIES

# CONDENSATORI AD ACQUA VERTICALI
## CON RICEVITORE DI LIQUIDO

**VERTICAL WATER-COOLED CONDENSERS WITH LIQUID RECEIVER**



# CREIAMO FREDDO
## WE CREATE COLD

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