

# SYMBOLS

## Operation



Cooling only



Heat Pump



Ice protection system



Thermostatic Expansion Valve

## Condensation



Air cooled



Water cooled



Evap. Condenser

## Installation



Indoor Inst.



Outdoor inst.



Roof Top

## Refrigerant



Refrig. R-134a



Refrig. R-407C



Refrig. R-22



Refrig. Ammonia



Refrig. R-507A



Refrig. R-404A

## Compressor



Twin-screw Semi



Herm. Scroll

## Electronics



Electronic Expansion Valve



Adv. Magnum Cont.



PLC Cont.



Variable Freq. Drive



Remote Monitoring

## Extra Optional Features



Direct Expansion Type



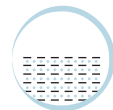
Cold Water



Hot Water



Coated Fins



Flooded Evap.



Elec. Liquid Level Ctrl.

# NOMENCLATURE

## Refrigerant

A



Refrig. R-134a



Refrig. R-507A



Refrig. R-404A

B



Refrig. R-407C

C



Refrig. R-22

D



Refrig. Ammonia

## Condensation

AC



Air cooled

WC



Water cooled

## Compressor

R



Twin-screw Semi

S



Herm. Scroll

## Temperature

P



Plus

M



Minus

# SERIES

## AirCon

### Application Type

Designed for comfort cooling / heating applications using screw compressor & scroll compressor technology

### Temperature Range

+7.0 degree Celsius to +15.0 degree Celsius

## Kuhler

### Application Type

Designed for industrial process cooling applications using screw compressor & scroll compressor technology

### Temperature Range

-15.0 degree Celsius to +20.0 degree Celsius

## CST

### Application Type

Designed for ultra low temperature process cooling applications using screw compressor technology with in-built motor

### Temperature Range

-15.0 degree Celsius to -50.0 degree Celsius

## Buffalo

### Application Type

Designed for ultra low temperature process cooling / refrigeration & comfort cooling applications

### Temperature Range

-50.0 degree Celsius to +10.0 degree Celsius

## MRI Chillers

### Application Type

Designed for medical equipment cooling applications

### Temperature Range

+5.0 degree Celsius to +20.0 degree Celsius

## technical data

## Flamingo Chillers: KUHLER (AWCSP05) Series Water Cooled Scroll Chillers

### Technical Specifications: R-134A (CFC Free) Refrigerant @ Chilled Water temperature of plus 5 degree C

| Model Number                   | AWCSP05<br>01     | AWCSP05<br>02 | AWCSP05<br>03 | AWCSP05<br>04 | AWCSP05<br>05 | AWCSP05<br>06 | AWCSP05<br>07 | AWCSP05<br>08 | AWCSP05<br>09 |
|--------------------------------|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Refrigerant                    | R-134A (CFC Free) |               |               |               |               |               |               |               |               |
| Nominal Cooling Capacity (TR)  | 5.00 TR           | 10.00 TR      | 15.00 TR      | 20.00 TR      | 25.00 TR      | 30.00 TR      | 40.00 TR      | 45.00 TR      | 50.00 TR      |
| Nominal Cooling Capacity (KW)  | 17.62             | 17.62 X 2     | 26.36 X 2     | 35.15 X 2     | 45.51 X 2     | 54.12 X 2     | 70.70 X 2     | 79.95 X 2     | 89.66 X 2     |
| Current (Amperes)              | 8.97              | 8.97 X 2      | 16.13 X 2     | 17.92 X 2     | 26.53 X 2     | 31.12 X 2     | 38.79 X 2     | 46.71 X 2     | 50.44 X 2     |
| Total Input (KW)               | 4.06              | 4.06 X 2      | 6.27 X 2      | 8.11 X 2      | 10.72 X 2     | 13.21 X 2     | 17.19 X 2     | 19.83 X 2     | 22.61 X 2     |
| Total COP/EER at 100%          | 4.34              | 4.34          | 4.15          | 4.28          | 4.07          | 4.10          | 4.11          | 4.03          | 3.97          |
| Tank                           | 50 Litres         | 100 Litres    | 200 Litres    | N             | N             | N             | N             | N             | N             |
| Pump                           | Y                 | Y             | Y             | N             | N             | N             | N             | N             | N             |
| Number of refrigerant circuits | 1                 |               |               |               | 2             |               |               |               |               |
| Power Supply (V/Ph/Hz)         | 400/3/50          |               |               |               |               |               |               |               |               |

### Data referred to the following conditions:

- (1) Internal exchanger (Evaporator) Water Temperature = Plus5°C / Plus10°C; External exchanger (Condenser) water Temperature = 40/35°C;
- (2) Kuhler Series = Multipurpose Industrial process cooling chillers
- (3) For Dimensions & Weight contact Flamingo Chillers

## Functions & Features



PLC Cont.



Cooling Only



Water Cooled



Indoor Inst.



Refrig. R-134a



Herm. Scroll



Thermostatic  
Expansion Valve



Ice Protection  
System

## Optional Features



Adv. Magnum  
Cont.



Remote Monitoring



Variable Freq.  
Drive



Electronic Expansion  
Valve



Direct Expansion  
Type

**Kuhler Series  
AWCSP05**

## technical data

## Flamingo Chillers: KUHLER (AWCSP10) Series Water Cooled Scroll Chillers

### Technical Specifications: R-134A (CFC Free) Refrigerant @ Chilled Water temperature of plus 10 degree C

| Model Number                   | AWCSP10<br>01     | AWCSP10<br>02 | AWCSP10<br>03 | AWCSP10<br>04 | AWCSP10<br>05 | AWCSP10<br>06 | AWCSP10<br>07 | AWCSP10<br>08 | AWCSP10<br>09 |
|--------------------------------|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Refrigerant                    | R-134A (CFC Free) |               |               |               |               |               |               |               |               |
| Nominal Cooling Capacity (TR)  | 5.00 TR           | 10.00 TR      | 15.00 TR      | 20.00 TR      | 25.00 TR      | 30.00 TR      | 35.00 TR      | 40.00 TR      | 50.00 TR      |
| Nominal Cooling Capacity (KW)  | 19.44             | 19.44 X 2     | 27.28 X 2     | 38.31 X 2     | 44.15 X 2     | 53.74 X 2     | 62.08 X 2     | 70.30 X 2     | 88.43 X 2     |
| Current (Amperes)              | 9.89              | 9.89 X 2      | 13.29 X 2     | 19.77 X 2     | 22.71 X 2     | 26.57 X 2     | 29.26 X 2     | 26.86 X 2     | 39.72 X 2     |
| Total Input (KW)               | 3.76              | 3.76 X 2      | 5.37 X 2      | 7.53 X 2      | 8.66 X 2      | 10.73 X 2     | 12.45 X 2     | 13.89 X 2     | 18.52 X 2     |
| Total COP/EER at 100%          | 5.16              | 5.16          | 5.08          | 5.09          | 5.10          | 5.01          | 4.98          | 5.02          | 4.77          |
| Tank                           | 50 Litres         | 100 Litres    | 200 Litres    | N             | N             | N             | N             | N             | N             |
| Pump                           | Y                 | Y             | Y             | N             | N             | N             | N             | N             | N             |
| Number of refrigerant circuits | 1                 | 2             |               |               |               |               |               |               |               |
| Power Supply (V/Ph/Hz)         | 400/3/50          |               |               |               |               |               |               |               |               |

### Data referred to the following conditions:

- (1) Internal exchanger (Evaporator) Water Temperature = Plus5°C / Plus10°C; External exchanger (Condenser) water Temperature = 40/35°C;
- (2) Kuhler Series = Multipurpose Industrial process cooling chillers
- (3) For Dimensions & Weight contact Flamingo Chillers

## Functions & Features



PLC Cont.



Cooling Only



Water Cooled



Indoor Inst.



Refrig. R-134a



Herm. Scroll



Thermostatic  
Expansion Valve



Ice Protection  
System

## Optional Features



Adv. Magnum  
Cont.



Remote Monitoring



Variable Freq.  
Drive



Electronic Expansion  
Valve



Direct Expansion  
Type

**Kuhler Series  
AWCSP10**

## technical data

## Flamingo Chillers: KUHLER(AWCSP15) Series Water Cooled Scroll Chillers

Technical Specifications: R-134A (CFC Free) Refrigerant @ Chilled Water temperature of plus 15 degree C

| Model Number                   | AWCSP15 01        | AWCSP15 02 | AWCSP15 03 | AWCSP15 04 | AWCSP15 05 | AWCSP15 06 | AWCSP15 07 | AWCSP15 08 | AWCSP15 09 | AWCSP15 10 |
|--------------------------------|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Refrigerant                    | R-134A (CFC Free) |            |            |            |            |            |            |            |            |            |
| Nominal Cooling Capacity (TR)  | 5.00 TR           | 10.00 TR   | 15.00 TR   | 20.00 TR   | 25.00 TR   | 30.00 TR   | 35.00 TR   | 40.00 TR   | 45.00 TR   | 50.00 TR   |
| Nominal Cooling Capacity (KW)  | 18.33             | 18.33 X 2  | 27.06 X 2  | 35.78 X 2  | 46.11 X 2  | 53.31 X 2  | 62.30 X 2  | 70.49 X 2  | 79.71 X 2  | 87.87 X 2  |
| Current (Amperes)              | 7.34              | 7.34 X 2   | 11.32 X 2  | 12.85 X 2  | 19.71 X 2  | 22.63 X 2  | 22.29 X 2  | 25.68 X 2  | 31.07 X 2  | 26.99 X 2  |
| Total Input (KW)               | 2.88              | 2.88 X 2   | 4.31 X 2   | 5.74 X 2   | 7.48 X 2   | 8.62 X 2   | 10.00 X 2  | 11.47 X 2  | 13.23 X 2  | 14.12 X 2  |
| Total COP/EER at 100%          | 6.37              | 6.37       | 6.27       | 6.23       | 6.16       | 6.18       | 6.23       | 6.14       | 6.02       | 5.97       |
| Tank                           | 50 Litres         | 100 Litres | 200 Litres | N          | N          | N          | N          | N          | N          | N          |
| Pump                           | Y                 | Y          | Y          | N          | N          | N          | N          | N          | N          | N          |
| Number of refrigerant circuits | 1                 | 2          |            |            |            |            |            |            |            |            |
| Power Supply (V/Ph/Hz)         | 400/3/50          |            |            |            |            |            |            |            |            |            |

Data referred to the following conditions:

- (1) Internal exchanger (Evaporator) Water Temperature = Plus15°C / Plus20°C; External exchanger (Condenser) water Temperature = 40/35°C;
- (2) Kuhler Series = Multipurpose Industrial process cooling chillers
- (3) For Dimensions & Weight contact Flamingo Chillers

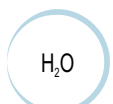
## Functions & Features



PLC Cont.



Cooling Only



Water Cooled



Indoor Inst.



Refrig. R-134a



Herm. Scroll



Thermostatic  
Expansion Valve



Ice Protection  
System

## Optional Features



Adv. Magnum  
Cont.



Remote Monitoring



Variable Freq.  
Drive



Electronic Expansion  
Valve



Direct Expansion  
Type

**Kuhler Series  
AWCSP15**

## technical data

## Flamingo Chillers: KUHLER (AWCSP20) Series Water Cooled Scroll Chillers

**Technical Specifications: R-134A (CFC Free) Refrigerant @ Chilled Water temperature of plus 20 degree C**

| Model Number                   | AWCSP20 01        | AWCSP20 02 | AWCSP20 03 | AWCSP20 04 | AWCSP20 05 | AWCSP20 06 | AWCSP20 07 | AWCSP20 08 | AWCSP20 09 | AWCSP20 10 |
|--------------------------------|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Refrigerant                    | R-134A (CFC Free) |            |            |            |            |            |            |            |            |            |
| Nominal Cooling Capacity (TR)  | 5.00 TR           | 10.00 TR   | 15.00 TR   | 20.00 TR   | 25.00 TR   | 30.00 TR   | 35.00 TR   | 40.00 TR   | 45.00 TR   | 50.00 TR   |
| Nominal Cooling Capacity (KW)  | 21.19             | 21.19 X 2  | 26.95 X 2  | 38.68 X 2  | 43.93 X 2  | 53.10 X 2  | 61.53 X 2  | 71.77 X 2  | 79.08 X 2  | 87.87 X 2  |
| Current (Amperes)              | 7.25              | 7.25 X 2   | 9.82 X 2   | 13.49 X 2  | 14.55 X 2  | 19.63 X 2  | 22.53 X 2  | 22.14 X 2  | 25.49 X 2  | 29.09 X 2  |
| Total Input (KW)               | 2.83              | 2.83 X 2   | 3.71 X 2   | 5.38 X 2   | 6.19 X 2   | 7.42 X 2   | 8.57 X 2   | 9.92 X 2   | 11.68 X 2  | 12.38 X 2  |
| Total COP/EER at 100%          | 7.49              | 7.49       | 7.26       | 7.18       | 7.08       | 7.15       | 7.18       | 7.23       | 6.71       | 6.97       |
| Tank                           | 50 Litres         |            | 200 Litres | N          | N          | N          | N          | N          | N          | N          |
| Pump                           | Y                 | Y          | Y          | N          | N          | N          | N          | N          | N          | N          |
| Number of refrigerant circuits | 1                 | 2          |            |            |            |            |            |            |            |            |
| Power Supply (V/Ph/Hz)         | 400/3/50          |            |            |            |            |            |            |            |            |            |

Data referred to the following conditions:

- (1) Internal exchanger (Evaporator) Water Temperature = Plus20°C / Plus25°C; External exchanger (Condenser) water Temperature = 40/35°C;
- (2) Kuhler Series = Multipurpose Industrial process cooling chillers
- (3) For Dimensions & Weight contact Flamingo Chillers

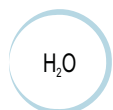
## Functions & Features



PLC Cont.



Cooling Only



Water Cooled



Indoor Inst.



Refrig. R-134a



Herm. Scroll



Thermostatic Expansion Valve



Ice Protection System

## Optional Features



Adv. Magnum Cont.



Remote Monitoring



Variable Freq. Drive



Electronic Expansion Valve



Direct Expansion Type

**Kuhler Series  
AWCSP20**