

# 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



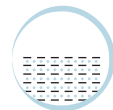
Cold Water



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

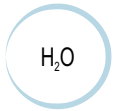
## Condensation

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 (AACRM05) Series Air Cooled Screw Chiller

### Technical Specifications: R-134a (CFC Free) Refrigerant @ Chilled Brine/Glycol temperature of minus 5 degree C

Model Number	AACRM05 01	AACRM05 02	AACRM05 03	AACRM05 04	AACRM05 05	AACRM05 06	AACRM05 07	AACRM05 08	AACRM05 09	AACRM05 10	AACRM05 11	AACRM05 12	AACRM05 13
Refrigerant	R-134a (CFC Free)												
Nominal Cooling Capacity (TR)	9.84	13.34	16.90	17.61	19.66	23.95	26.03	30.75	32.49	33.14	35.19	38.29	42.16
Nominal Cooling Capacity (KW)	34.60	46.90	59.40	61.90	69.10	84.20	91.50	108.10	114.20	116.50	123.70	134.60	148.20
Compressor Motor (HP)	31	41	52	55	58	67	75	89	91	94	101	108	121
Current (Amperes)	34.90	46.10	57.60	58.00	65.10	77.80	85.90	97.80	102.20	105.40	111.90	120.80	135.70
Total Input (KW)	21.30	28.10	35.10	35.40	39.70	47.40	52.40	59.70	62.30	64.20	68.20	73.70	82.70
Total COP/EER at 100%	1.60	1.70	1.70	1.70	1.70	1.80	1.70	1.80	1.80	1.80	1.80	1.80	1.80
Number of refrigerant circuits	1												
Power Supply (V/Ph/Hz)	400/3/50												

### Data referred to the following conditions:

- (1) Internal exchanger (Evaporator) Brine/Glycol Temperature = Minus 5°C /0°C; Condensing temperature = 55°C;
- (2) Kuhler Series = Multipurpose Industrial process cooling chillers
- (3) All Kuhler Series Models **AACRM05 05 to AACRM05 13** are equipped with Advanced Magnum Step – less capacity microprocessor controller & Electronic expansion valve.
- (4) For Dimensions & Weight contact Flamingo Chillers

## Functions & Features



PLC Cont.



Cooling Only



Air Cooled



Outdoor Inst.



Roof Top



Indoor Inst.



Refrig. R-134a



Twin-screw Semi



Thermostatic  
Expansion Valve



Ice Protection  
System

## Optional Features



Adv. Magnum  
Cont.



Remote Monitoring



Variable Freq.  
Drive



Electronic Expansion  
Valve



Direct Expansion  
Type



Coted Fins

**Kuhler Series  
AACRM05**

## technical data

## Flamingo Chillers: KUHLER (AACRP01) Series Air Cooled Screw Chillers

### Technical Specifications: R-134a (CFC Free) Refrigerant @ Chilled Brine/Glycol temperature of Plus 1 degree C

Model Number	AACRP01 01	AACRP01 02	AACRP01 03	AACRP01 04	AACRP01 05	AACRP01 06	AACRP01 07	AACRP01 08	AACRP01 09	AACRP01 10	AACRP01 11	AACRP01 12	AACRP01 13
Refrigerant	R-134a (CFC Free)												
Nominal Cooling Capacity (TR)	12.83	17.38	22.01	22.95	25.63	31.23	33.91	40.08	42.36	43.21	45.88	49.92	54.96
Nominal Cooling Capacity (KW)	45.10	61.10	77.40	80.70	90.10	109.80	119.20	140.90	148.90	151.90	161.30	175.50	193.20
Compressor Motor (HP)	31	41	52	55	58	67	75	89	91	94	101	108	121
Current (Amperes)	36.10	47.70	59.60	60.20	67.40	80.60	89.10	101.40	105.90	109.20	116.00	125.20	140.70
Total Input (KW)	22.00	29.10	36.40	36.70	41.10	49.10	54.30	61.80	64.60	66.60	70.70	76.30	85.80
Total COP/EER at 100%	2.0	2.10	2.10	2.20	2.20	2.20	2.20	2.30	2.30	2.30	2.30	2.30	2.30
Number of refrigerant circuits	1												
Power Supply (V/Ph/Hz)	400/3/50												

### Data referred to the following conditions:

- (1) Internal exchanger (Evaporator) Brine/Glycol Temperature = 1°C /6°C; Condensing temperature = 55°C;
- (2) Kuhler Series = Multipurpose Industrial process cooling chillers
- (3) All Kuhler Series Models **AACRP01 05 to AACRP01 13** are equipped with Advanced Magnum Step – less capacity microprocessor controller & Electronic expansion valve.
- (4) For Dimensions & Weight contact Flamingo Chillers

## Functions & Features



PLC Cont.



Cooling Only



Air Cooled



Outdoor Inst.



Roof Top



Indoor Inst.



Refrig. R-134a



Twin-screw Semi



Thermostatic Expansion Valve



Ice Protection System

## Optional Features



Adv. Magnum Cont.



Remote Monitoring



Variable Freq. Drive



Electronic Expansion Valve



Direct Expansion Type



Coted Fins

**Kuhler Series  
AACRP01**

## technical data

## Flamingo Chillers: KUHLER (AACRP05) Series Air Cooled Screw Chillers

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

Model Number	AACRP05 01	AACRP05 02	AACRP05 03	AACRP05 04	AACRP05 05	AACRP05 06	AACRP05 07	AACRP05 08	AACRP05 09	AACRP05 10	AACRP05 11	AACRP05 12	AACRP05 13
Refrigerant	R-134a (CFC Free)												
Nominal Cooling Capacity (TR)	15.56	21.10	26.74	27.88	31.15	37.95	41.19	48.68	51.47	52.60	55.73	60.65	66.77
Nominal Cooling Capacity (KW)	54.70	74.20	94.00	98.00	109.50	133.40	144.80	171.10	180.90	184.90	195.90	213.20	234.70
Compressor Motor (HP)	31	41	52	55	58	67	75	89	91	94	101	108	121
Current (Amperes)	36.90	48.80	60.90	61.40	68.90	82.30	91.00	103.60	108.20	111.50	118.50	127.90	143.60
Total Input (KW)	22.50	29.70	37.10	37.50	42.00	50.20	55.50	63.10	65.90	68.00	72.20	78.00	87.60
Total COP/EER at 100%	2.40	2.50	2.50	2.60	2.60	2.70	2.60	2.70	2.70	2.70	2.70	2.70	2.70
Number of refrigerant circuits	1												
Power Supply (V/Ph/Hz)	400/3/50												

Data referred to the following conditions:

- (1) Internal exchanger (Evaporator) Brine/Glycol/Water Temperature = Plus 5°C / Plus 10°C; Condensing temperature = 55°C;
- (2) Kuhler Series = Multipurpose Industrial process cooling chillers
- (3) All Kuhler Series Models **AACRP05 05 to AACRP05 13** are equipped with Advanced Magnum Step – less capacity microprocessor controller & Electronic expansion valve.
- (4) For Dimensions & Weight contact Flamingo Chillers

## Functions & Features



PLC Cont.



Cooling Only



Air Cooled



Outdoor Inst.



Roof Top



Indoor Inst.



Refrig. R-134a



Twin-screw Semi



Thermostatic  
Expansion Valve



Ice Protection  
System

## Optional Features



Adv. Magnum  
Cont.



Remote Monitoring



Variable Freq.  
Drive



Electronic Expansion  
Valve



Direct Expansion  
Type



Coted Fins

**Kuhler Series  
AACRP05**

## technical data

## Flamingo Chillers: KUHLER (AACRP10) Series Air Cooled Screw Chillers

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

Model Number	AACRP10 01	AACRP10 02	AACRP10 03	AACRP10 04	AACRP10 05	AACRP10 06	AACRP10 07	AACRP10 08	AACRP10 09	AACRP10 10	AACRP10 11	AACRP10 12	AACRP10 13
Refrigerant	R-134a (CFC Free)												
Nominal Cooling Capacity (TR)	18.58	25.20	31.92	33.25	37.18	45.29	49.19	58.09	61.42	62.64	66.54	72.37	79.69
Nominal Cooling Capacity (KW)	65.30	88.60	112.20	116.90	130.70	159.20	172.90	204.20	215.90	220.20	233.90	254.4	280.10
Compressor Motor (HP)	31	41	52	55	58	67	75	89	91	94	101	108	121
Current (Amperes)	37.70	49.80	62.20	62.70	70.30	84.10	92.90	105.80	110.50	113.90	121.00	130.60	146.70
Total Input (KW)	23.00	30.40	37.90	38.30	42.90	51.30	56.60	64.50	67.30	69.40	73.80	79.60	89.50
Total COP/EER at 100%	2.80	2.90	3.00	3.10	3.00	3.10	3.10	3.20	3.20	3.20	3.20	3.20	3.10
Number of refrigerant circuits	1												
Power Supply (V/Ph/Hz)	400/3/50												

### Data referred to the following conditions:

- (1) Internal exchanger (Evaporator) Brine/Glycol /WaterTemperature = Plus10°C / Plus 15°C; Condensing temperature = 55°C;
- (2) Kuhler Series = Multipurpose Industrial process cooling chillers
- (3) All Kuhler Series Models **AACRP10 05 to AACRP10 13** are equipped with Advanced Magnum Step – less capacity microprocessor controller & Electronic expansion valve.
- (4) For Dimensions & Weight contact Flamingo Chillers

## Functions & Features



PLC Cont.



Cooling Only



Air Cooled



Outdoor Inst.



Roof Top



Indoor Inst.



Refrig. R-134a



Twin-screw Semi



Thermostatic  
Expansion Valve



Ice Protection  
System

## Optional Features



Adv. Magnum  
Cont.



Remote Monitoring



Variable Freq.  
Drive



Electronic Expansion  
Valve



Direct Expansion  
Type



Coted Fins

**Kuhler Series  
AACRP10**

## technical data

## Flamingo Chillers: KUHLER(AACRP15) Series Air Cooled Screw Chillers

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

Model Number	AACRP15 01	AACRP15 02	AACRP15 03	AACRP15 04	AACRP15 05	AACRP15 06	AACRP15 07	AACRP15 08	AACRP15 09	AACRP15 10	AACRP15 11	AACRP15 12	AACRP15 13
Refrigerant	R-134a (CFC Free)												
Nominal Cooling Capacity (TR)	21.93	29.73	37.67	39.26	43.84	53.43	58.00	68.56	72.46	73.91	78.49	85.40	94.03
Nominal Cooling Capacity (KW)	77.10	104.50	132.40	138.00	154.10	187.80	204.00	241.00	254.70	259.80	275.90	300.20	330.50
Compressor Motor (HP)	31	41	52	55	58	67	75	89	91	94	101	108	121
Current (Amperes)	38.40	50.80	63.50	64.00	71.70	85.70	94.80	107.90	112.70	116.20	123.40	133.20	149.60
Total Input (KW)	23.40	31.00	38.70	39.00	43.70	52.30	57.80	65.80	68.70	70.80	75.20	81.20	91.20
Total COP/EER at 100%	3.30	3.40	3.40	3.50	3.50	3.60	3.50	3.70	3.70	3.70	3.70	3.70	3.60
Number of refrigerant circuits	1												
Power Supply (V/Ph/Hz)	400/3/50												

### Data referred to the following conditions:

- (1) Internal exchanger (Evaporator) Brine/Glycol/Water Temperature = Plus 15°C / Plus 20°C; Condensing temperature = 55°C;
- (2) Kuhler Series = Multipurpose Industrial process cooling chillers
- (3) All Kuhler Series Models **AACRP15 05 to AACRP15 13** are equipped with Advanced Magnum Step – less capacity microprocessor controller & Electronic expansion valve.
- (4) For Dimensions & Weight contact Flamingo Chillers

## Functions & Features



PLC Cont.



Cooling Only



Air Cooled



Outdoor Inst.



Roof Top



Indoor Inst.



Refrig. R-134a



Twin-screw Semi



Thermostatic  
Expansion Valve



Ice Protection  
System

## Optional Features



Adv. Magnum  
Cont.



Remote Monitoring



Variable Freq.  
Drive



Electronic Expansion  
Valve



Direct Expansion  
Type



Coted Fins

**Kuhler Series  
AACRP15**

## technical data

## Flamingo Chillers: KUHLER (AACRP20) Series Air Cooled Screw Chillers

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

Model Number	AACRP20 01	AACRP20 02	AACRP20 03	AACRP20 04	AACRP20 05	AACRP20 06	AACRP20 07	AACRP20 08	AACRP20 09	AACRP20 10	AACRP20 11	AACRP20 12	AACRP20 13
Refrigerant	R-134a (CFC Free)												
Nominal Cooling Capacity (TR)	25.57	34.65	43.90	45.75	51.12	62.30	67.65	79.91	84.47	86.17	91.52	99.54	109.59
Nominal Cooling Capacity (KW)	89.90	121.80	154.30	160.80	179.70	219.00	237.80	280.90	296.90	302.90	321.70	349.90	385.20
Compressor Motor (HP)	31	41	52	55	58	67	75	89	91	94	101	108	121
Current (Amperes)	39.20	51.70	64.60	65.20	73.10	87.30	96.50	109.90	114.80	118.30	125.70	135.70	152.40
Total Input (KW)	23.90	31.50	39.40	39.70	44.50	53.20	58.80	67.00	70.00	72.10	76.60	82.70	92.90
Total COP/EER at 100%	3.80	3.90	3.90	4.00	4.00	4.10	4.00	4.20	4.20	4.20	4.20	4.20	4.10
Number of refrigerant circuits	1												
Power Supply (V/Ph/Hz)	400/3/50												

### Data referred to the following conditions:

- (1) Internal exchanger (Evaporator) Brine/Glycol/Water Temperature = Plus 20°C / Plus 25°C; Condensing temperature = 55°C;
- (2) Kuhler Series = Multipurpose Industrial process cooling chillers
- (3) All Kuhler Series Models **AACRP20 05 to AACRP20 13** are equipped with Advanced Magnum Step – less capacity microprocessor controller & Electronic expansion valve.
- (4) For Dimensions & Weight contact Flamingo Chillers

## Functions & Features



PLC Cont.



Cooling Only



Air Cooled



Outdoor Inst.



Roof Top



Indoor Inst.



Refrig. R-134a



Twin-screw Semi



Thermostatic  
Expansion Valve



Ice Protection  
System

## Optional Features



Adv. Magnum  
Cont.



Remote Monitoring



Variable Freq.  
Drive



Electronic Expansion  
Valve



Direct Expansion  
Type



Coted Fins

**Kuhler Series  
AACRP20**