

# ANK

030/050

Heat pump

Air/Water optimized for heating

Outdoor installation

Axial fans

Scroll compressor

Cooling capacity 2.51÷4.02 BTU/h

Heating capacity 37670÷57598 BTU/h

R410A



Intertek



- PRODUCTION OF HOT WATER UP TO 140°F
- HEATING OPERATION WITH EXTERNAL TEMPERATURES DOWN TO -4°F TO 107.6°F
- PRODUCTION OF HOT DOMESTIC WATER WITH EXTERNAL TEMPERATURES UP TO 39.2°F

## CHARACTERISTICS

Reversible Heat pumps units

### Versions

**ANK\_H:** Heat pumps high efficiency, without hydro-nic kit

### Versions with hydronic kit

**ANK\_HP:** with standard pump

**ANK\_HA:** with buffer tank and standard pump

### Operational limits

- max. external air temperature 114.8°F cooling mode
- max. Leaving water temperature 64.4°F

### cooling mode

For more details on operating limits, refer to the technical documentation available on the website [www.aermec.com](http://www.aermec.com)

- High efficiency scroll compressors with low power input
- Electronic soft start to reduce starting current (standard for single phase versions)
- High efficiency heat exchangers with trace heating as standard
- flow switch as standard supply

- Water filter
- Axial flow fan units for extremely quiet operation
- The hydronic kit includes:
  - Expansion tank
  - Safety valve
  - Pressure gauge
- Electronic controller (Modu\_control)
- Metallic protective cabinet with anti-corrosion polyester paint

## ACCESSORIES

- VT: Group of anti-vibration, to be installed under the base.

## ACCESSORY COMPATIBILITY

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<b>ANK</b>	<b>VERS.</b>	<b>030</b>	<b>045</b>	<b>050</b>
<b>VT</b>	<b>H-HP</b>	VT9	VT9	VT9
	<b>HA</b>	VT15	VT15	VT15

## UNIT CONFIGURATOR

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By suitably combining the numerous options available it is possible to configure each model in such a way as to meet the most particular of system requirements.

<b>FIELD</b>	<b>DESCRIPTION</b>
<b>1,2,3</b>	<b>ANK</b>
<b>4,5,6</b>	<b>SIZE</b> 030 - 045 - 050
<b>7</b>	<b>MODEL</b> <b>H</b> Heat pumps
<b>8</b>	<b>VERSION</b> ° Standard <b>P</b> With pump <b>A</b> With storage tank
<b>9</b>	<b>EXECUTION</b> ° Standard
<b>10</b>	<b>COIL</b> ° Aluminium
<b>11</b>	<b>FIELD OF USE</b> ° Standard temperature of water produced up to 39,2°F / 4°C
<b>12</b>	<b>EVAPORATOR</b> ° Standard
<b>13</b>	<b>POWER SUPPLY</b> <b>5</b> 1~220V 60Hz

## TECHNICAL DATA

COOLING		U.M.	030	045	050
Cooling capacity [1]	ALL	ton	2,51	3,35	4,02
Total input power [1*]	H	kW	2,81	3,85	4,32
	HP-HA	kW	3,01	4,05	4,52
Water flow rate (cooling mode)	ALL	gpm	6,0	8,0	9,5
Pressure drop + piping	H	p.s.i.	1,1	1,3	2,0
Pressure drop water filter	H	p.s.i.	0,2	0,4	0,5
EER	H	BTU/W	10,73	10,46	11,18
	HP-HA	BTU/W	8,94	9,94	10,68
IPLV	ALL	-	4,36	4,25	4,53
HEATING		U.M.	030	045	050
Heating capacity [2]	ALL	BTU/h	37670	51967	57598
Total input power	H	kW	3,05	4,00	4,33
	HP-HA	kW	3,25	4,20	4,53
Water flow rate (heating mode)	ALL	gpm	8,4	11,5	12,8
Pressure drop + piping	H	p.s.i.	2,1	2,7	3,6
Pressure drop water filter	H	p.s.i.	0,3	0,8	0,9
COP	H	W/W	3,62	3,81	3,89
	HP-HA	W/W	3,40	3,63	3,73
IPLV	ALL	-	4,36	4,25	4,53
ELECTRICAL DATA					
Power supply	ALL		220/1/60		
Total input current heating mode	H	A	14,2	16,9	18,3
Total input current heating mode	HP-HA	A	15,1	17,8	19,2
Total input current cooling mode	H	A	13,0	16,3	18,2
Total input current cooling mode	HP-HA	A	13,9	17,2	19,1
Peak current (LRA)	ALL	A	45,0	45,0	45,0
FANS (AXIAL)					
Quantity	ALL	n°	2	2	2
Total input power	ALL	cfm	244	244	244
Air flow rate	ALL	kW	0,3	0,3	0,3
EVAPORATOR					
Hydraulic connections (Gas)	ALL	n°	1	1	1
Quantity	ALL	inch	1" 1/4	1" 1/4	1" 1/4
CHARGES [3]					
Refrigerant gas (R410A)	ALL	lb	9	12	13
COMPRESSORS (SCROLL)					
N. compressors/circuits	ALL	n°/n°	1/1	1/1	1/1
Capacity control	ALL	-	0-100	0-100	0-100
SOUND DATA					
Sound power [4]	-	dba	70,5	70,5	70,5
Sound pressure at 10 m [5]	-	dba	39,5	39,5	39,5

### NOMINAL REFERENCE CONDITIONS:

#### COOLING (AHRI CONDITIONS)

Outlet water temperature	6,7°C / 44,6°F
Flow rate	0,043l/s per kW
External temperature	35°C / 95°F

[1\*] The total input power not include the pump.

#### HEATING (AHRI CONDITIONS)

Water input temperature	104°F / 40°C
Output water temperature	113°F / 45°C
External air temperature d.b./w.b.	44,6-42,8°F / 7-6°C

Δt10,01°F / 5°C [3] The reported data can be amended any time Aermec considers it necessary.

#### [4] Sound power

Aermec determines sound power values in agreement with the 9614-2 Standard, in compliance with that requested by Eurovent certification.

#### [5] Sound Pressure

Sound pressure measured in free field conditions with reflective surface (directivity factor Q=2) at 10mt distance from external surface of unit, in compliance with ISO 3744 regulations.

## DIMENSIONS (mm)

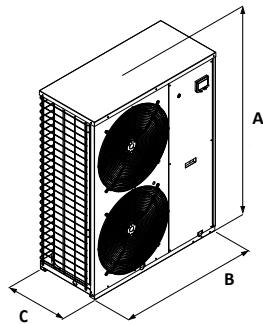
### DIMENSIONS H-HP VERSION

Height	A	in	50	50	50
Width	B	in	39	39	39
Depth	C	in	18	18	18
Empty weight "H"	H	lb	328	364	379
Empty weight "HP"	HP	lb	340	386	401

### DIMENSIONS HA VERSION

Height	A	in	50	50	50
Width	B	in	57	57	57
Depth	C	in	18	18	18
Empty weight "HA"	HA	lb	417	463	478

ANK [H-HP] 030-045-050



ANK [HA] 030-045-050

