

# AHSC-18

PORTABLE HEAT PUMP SYSTEM



AIRREX has designed portable heat pumps that can be utilized in year round applications.

Portable heat pumps by AIRREX have the ability to be switched from cooling to heating mode.

In cooling mode a heat pump works the same as an ordinary air conditioner (A/C).

In heating mode the unit absorbs the heat from the refrigeration cycle and converts it into warm air(HEAT).



## O Portable Heatpump System





#### **O** Louver Grille

You can change wind direction up, down, right or left.



### **O** Digital Controls

Programmable Timer Temperature Range: 64°F to 86°F High/Low Fan Speed Easy Cool and Heat Changeable



# Condensed water Tank LCDI Protection

5 Gallon Tank - Auto Shut Off LCDI Recessed Power Cords Standard 115 volts Power



### **4-Way Reversing Valve**

Core valve for hot and cool operating system

# AIRREX US Electrical Structure





# AHSC-18 Specifications

Safety Device  • Automatic Full Tank Shut-Off • Tank Position Detector  Power Cord  Power Cord Length  Refrigerant  • Automatic Full Tank Shut-Off • Tank Position Detector  • Thermostat Protector for Compressor  PLUG TYPE  9.8  R-410A (2.43)	Items	Unit	AHSC-18
Size (WXDXH)         inch.         19.5 x 26.6 x 52.2           Weight         Ibs         210           Current Consumption (AMPS)         A         15.9 (COLD) / 16 (HEAT)           Circuit Breaker Size (AMPS)         A         20           Rated Power Consumption (Cooling)         kW         1.83 (COLD) / 1.84 (HEAT)           Compressor Input         kW         1.45           Air Flow (CMP,High/Low)Evaporator         CFM         424 / 360           Air Flow(CMP,High/Low)Condenser         CFM         920           Motor Input         kW         0.38           Air Filter         -         Aluminum Filter           Nema Plug         -         5 - 20           Safety Device         • High/Low Pressure Switch • Automatic Full Tank Shut-Off • Tank Position Detector         • Fan Motor Protection • Thermostat Protector for Compressor           Power Cord         type         PLUG TYPE           Power Cord Length         ft         9.8           Refrigerant         Ibs         R-410A (2.43)           Operating Conditions         F         65°F DB 60%RH~113°F DB 40%RH (COLD) / 50°F DB 70%RH~81°F DB 50%RH           Maximum Duct Length         ft         30	Cooling & Heating capacity	BTU/h	16,800 (COLD) / 18,500 (HEAT)
Weight   Ibs   210   Current Consumption (AMPS)   A   15.9 (COLD) / 16 (HEAT)   Circuit Breaker Size (AMPS)   A   20   Rated Power Consumption (Cooling)   kW   1.83 (COLD) / 1.84 (HEAT)   Compressor Input   kW   1.45   Air Flow (CMP,High/Low)Evaporator   CFM   424 / 360   Air Flow (CMP,High/Low)Condenser   CFM   920   Motor Input   kW   0.38   Air Filter   -   Aluminum Filter   Nema Plug   -   5 - 20   Safety Device   Light Tank Shut-Off   Tank Position Detector   Thermostat Protector for Compressor   Power Cord   type   PLUG TYPE   Power Cord Length   ft   9.8   Refrigerant   Ibs   R-410A (2.43)   Operating Conditions   F   65'F DB 60%RH-113'F DB 40%RH (COLD) / 50'F DB 70%RH-81'F DB 50%RH   Maximum Duct Length   ft   30	Power Supply	Volts	115Vac 60Hz 1Ph
Current Consumption (AMPS)  Circuit Breaker Size (AMPS)  Rated Power Consumption (Cooling)  RW  1.83 (COLD) / 1.84 (HEAT)  Compressor Input  Air Flow (CMP,High/Low)Evaporator  Air Flow (CMP,High/Low)Condenser  CFM  Motor Input  Air Filter  Nema Plug  Safety Device  CFM  Safety Device  Power Cord  type  Pulg TYPE  Power Cord Length  Refrigerant  Maximum Duct Length  A 15.9 (COLD) / 16 (HEAT)  20  Au 20  Au 20  Au 32  Au 32  Au 32  Au 32  Au 32  Au 424 / 360  920  Aluminum Filter  Aluminum Filter  Aluminum Filter  Fan Motor Protection • 3min, Delay on the Tourism of Compressor on the Site of Compressor on the S	Size (WXDXH)	inch.	19.5 X 26.6 X 52.2
Circuit Breaker Size (AMPS)  A  20  Rated Power Consumption (Cooling)  kW  1.83 (COLD) / 1.84 (HEAT)  Compressor Input  kW  1.45  Air Flow (CMP,High/Low)Evaporator  Air Flow (CMP,High/Low)Condenser  CFM  920  Motor Input  kW  0,38  Air Filter  - Nema Plug  -  Safety Device  -  High/Low Pressure Switch - Automatic Full Tank Shut-Off - Tank Position Detector  Power Cord  type  PLUG TYPE  Power Cord Length  ft  9.8  Refrigerant  Ibs  R-410A (2.43)  Operating Conditions  F  65°F DB 60%RH~113°F DB 40%RH (COLD) / 50°F DB 70%RH~81°F DB 50%RH  Maximum Duct Length  ft  30	Weight	Ibs	210
Rated Power Consumption (Cooling)  kW  1.83 (COLD) / 1.84 (HEAT)  Compressor Input  kW  1.45  Air Flow (CMP,High/Low)Evaporator  CFM  424 / 360  Air Flow(CMP,High/Low)Condenser  CFM  920  Motor Input  kW  0,38  Air Filter  Nema Plug  -  Safety Device  -  High/Low Pressure Switch - Automatic Full Tank Shut-Off - Tank Position Detector  Power Cord  type  PLUG TYPE  Power Cord Length  ft  9.8  Refrigerant  Ibs  R-410A (2,43)  Operating Conditions  F  65°F DB 60%RH~113°F DB 40%RH (COLD) / 50°F DB 70%RH~81°F DB 50%RH  Maximum Duct Length  ft  30	Current Consumption (AMPS)	А	15.9 (COLD) / 16 (HEAT)
Compressor Input  Air Flow (CMP,High/Low)Evaporator  CFM  424 / 360  Air Flow(CMP,High/Low)Condenser  CFM  920  Motor Input  kW  0,38  Air Filter  Nema Plug  -  Safety Device  -  High/Low Pressure Switch - Automatic Full Tank Shut-Off - Tank Position Detector  Power Cord  type  PLUG TYPE  Power Cord Length  ft  9,8  Refrigerant  Ibs  R-410A (2,43)  Operating Conditions  F  65'F DB 60%RH~113'F DB 40%RH (COLD) / 50'F DB 70%RH~81'F DB 50%RH  Maximum Duct Length  ft  30	Circuit Breaker Size (AMPS)	А	20
Air Flow (CMP,High/Low)Evaporator  CFM  920  Motor Input  kW  0,38  Air Filter  - Aluminum Filter  Nema Plug  Safety Device  Power Cord  Power Cord  Power Cord Length  Refrigerant  Ibs  Refrigerant  Departing Conditions  F 65'F DB 60%RH~113'F DB 40%RH (COLD) / 50'F DB 70%RH~81'F DB 50%RH  Maximum Duct Length  Maximum Duct Length  Automatic Full Tank 9920  Aluminum Filter  Aluminum Filter  Fan Motor Protection • 3min, Delay • Thermostat Protector for Compressor  Thermostat Protector for Compressor  PLUG TYPE  9.8  Re-410A (2,43)  Operating Conditions  F 65'F DB 60%RH~113'F DB 40%RH (COLD) / 50'F DB 70%RH~81'F DB 50%RH  Maximum Duct Length	Rated Power Consumption (Cooling)	kW	1.83 (COLD) / 1.84 (HEAT)
Air Flow(CMP,High/Low)Condenser  CFM  920  Motor Input  kW  0,38  Air Filter  - Aluminum Filter  Nema Plug  - 5 - 20  Safety Device  - High/Low Pressure Switch - Automatic Full Tank Shut-Off - Tank Position Detector  Power Cord  type  PLUG TYPE  Power Cord Length  ft  9,8  Refrigerant  Ibs  R-410A (2.43)  Operating Conditions  F 65'F DB 60%RH~113'F DB 40%RH (COLD) / 50'F DB 70%RH~81'F DB 50%RH  Maximum Duct Length  ft  30	Compressor Input	kW	1.45
Motor Input  kW  O.38  Air Filter  - Aluminum Filter  Nema Plug  - 5 - 20  Safety Device  - High/Low Pressure Switch - Automatic Full Tank Shut-Off - Tank Position Detector  Power Cord  type  PLUG TYPE  Power Cord Length  ft  9.8  Refrigerant  Ibs  R-410A (2.43)  Operating Conditions  F 65'F DB 60%RH~113'F DB 40%RH (COLD) / 50'F DB 70%RH~81'F DB 50%RH  Maximum Duct Length  ft  30	Air Flow (CMP,High/Low)Evaporator	CFM	424 / 360
Air Filter - Aluminum Filter  Nema Plug - 5 - 20  Safety Device	Air Flow(CMP,High/Low)Condenser	CFM	920
Nema Plug  - Safety Device  - High/Low Pressure Switch - Automatic Full Tank Shut-Off - Tank Position Detector  - Automatic Full Tank Shut-Off - Tank Position Detector  - Thermostat Protector for Compressor  - Thermostat Protector	Motor Input	kW	0.38
Safety Device  . High/Low Pressure Switch . Automatic Full Tank Shut-Off . Tank Position Detector  Power Cord  type  PLUG TYPE  Power Cord Length  ft  9.8  Refrigerant  Ibs  R-410A (2.43)  Operating Conditions  F  65°F DB 60%RH~113°F DB 40%RH (COLD) / 50°F DB 70%RH~81°F DB 50%RH  Maximum Duct Length  ft  30	Air Filter	-	Aluminum Filter
Safety Device  Automatic Full Tank Shut-Off Tank Position Detector  Power Cord  type  Pug Type  Power Cord Length  ft  9.8  Refrigerant  Ibs  R-410A (2.43)  Operating Conditions  F  65°F DB 60%RH~113°F DB 40%RH (COLD) / 50°F DB 70%RH~81°F DB 50%RH  Maximum Duct Length  ft  30	Nema Plug	-	5 - 20
Power Cord Length ft 9.8  Refrigerant lbs R-410A (2.43)  Operating Conditions F 65°F DB 60%RH~113°F DB 40%RH (COLD) / 50°F DB 70%RH~81°F DB 50%RH  Maximum Duct Length ft 30	Safety Device		Automatic Full Tank Shut-Off     Thermostat Protector for Compressor
Refrigerant Ibs R-410A (2.43)  Operating Conditions °F 65°F DB 60%RH~113°F DB 40%RH (COLD) / 50°F DB 70%RH~81°F DB 50%RH  Maximum Duct Length ft 30	Power Cord	type	PLUG TYPE
Operating Conditions F 65°F DB 60%RH~113°F DB 40%RH (COLD) / 50°F DB 70%RH~81°F DB 50%RH  Maximum Duct Length ft 30	Power Cord Length	ft	9.8
Maximum Duct Length ft 30	Refrigerant	lbs	R-410A (2.43)
	Operating Conditions	°F	65°F DB 60%RH~113°F DB 40%RH (COLD) / 50°F DB 70%RH~81°F DB 50%RH (HEAT)
Static Pressure psi 0.042	Maximum Duct Length	ft	30
	Static Pressure	psi	0.042
Outlet Air Velocity ft/sec 38~33	Outlet Air Velocity	ft/sec	38~33
Outlet Temp. Difference °F 50~59	Outlet Temp. Difference	°F	50~59
Condenaste pump - Optional	Condenaste pump	-	Optional
Dehumidification in gallon per day - 16.5(gal/day) / 89.6°F 80% (MAX.) ~ 11.5(gal/day) / 80.6°F 60% (AHAM)	Dehumidification in gallon per day	-	16.5(gal/day) / 89.6°F 80% (MAX.) ~ 11.5(gal/day) / 80.6°F 60% (AHAM)

<sup>\*\*</sup> Designs and specifications of products are subject to change without prior notice for the improvements. The colors of products may be different due to the printing process.

# **Ideal Applications for Airrex Portable Air Conditioner**



Industrial Sites High Temperature work sites, Car manufacturing plants, Ship building yards and steel mills **Repair Shops** Car repair shops, Aircraft workshops, Farm machinery workshops, Gas stations & parking facilities **Heat Generating Equipment** Server rooms and machine rooms

Leisure / Outdoor Event Venues, Farm & Livestock Ranges

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