

APR's EH Series dehumidification system is designed for energy efficient control of indoor pool and spa environments in commercial and residential applications.

The EH Series system controls most major factors which are necessary for a healthy and comfortable pool environment, including room temperature and humidity; air ventilation and filtration; and pool water temperature.

High indoor air quality is at the heart of APR's total system approach. Advanced ventilation and filtration systems virtually eliminate unhealthy and potentially hazardous air borne corrosive elements, mold, mildew spores and certain viruses which are often found in indoor pool rooms

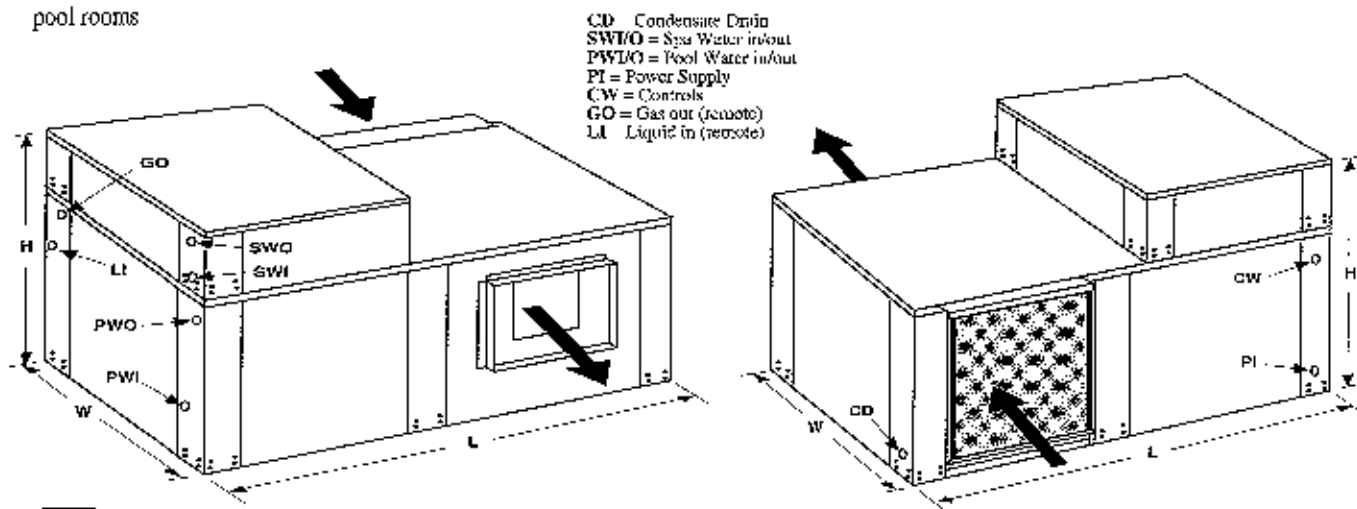
The APR EH-008 System is designed for use in applications with a total pool and spa surface area up to 250 square feet, and is ideal for pool areas in schools, health clubs, recreational facilities and residences where pool use is moderate.

The EH-008 removes approximately 08 pounds of moisture per hour while maintaining a comfortable environment of 50% RH, 80° F pool water and 82° F ambient.

Every EH-008 is computer modeled, lab verified and field tested for maximum dependability, high operating efficiency and long unit life.

Physical Characteristics

Without Spa Module (LxWxH)	49" x 36" x 25"
With Spa Module (LxWxH)	49" x 36" x 37"
Shipping Weight w/o Spa Module	275 (lbs)
Shipping Weight with Spa Module	325 (lbs)
R-22 Refrigerant Charge	6 (lbs)
Supply Air Duct (L x W)	10-1/8" x 11-1/8"
Return Air Duct (L x W)	25" x 20-1/8"
Pool Heat in/out-Cu	1" FPT
Opt. Spa Heat in/out-Cu	1" FPT
Remote Condenser Gas-Cu	1/2" OD
Remote Condenser Liquid-Cu	3/8" OD
Filters (L x W)	(1) 20" x 25"



CD = Condensate Drain
 SW/O = Spa Water in/out
 PW/O = Pool Water in/out
 PI = Power Supply
 CW = Controls
 GO = Gas out (remote)
 LI = Liquid in (remote)



APR EH Horizontal Series
 Dehumidification Equipment
EH 008

Outstanding Features for Exceptional Performance

- Components matched to load for high energy efficiency and superior performance - Kw/lb as low as .188 are achievable
- High efficiency filter banks for high IAQ
- Heavy duty construction for extended service life, including heavy gauge galvaneal panels with powder coated polyester finish
- Designed for ease of installation and maintenance with electrical knock-outs and removable panels
- Corrosion resistant construction to prolong component life. Compressors, valves and controls are outside of air stream. A corrosion resistant coating is applied to coils, blower assembly, piping and frame. Stainless steel fasteners are used when appropriate
- Insulated and compartmentalized for quiet operation and to eliminate component exposure to corrosive chlorine. High density insulation is applied to all panels. Compressor and blowers are in separate compartments
- Vented, double-wall, copper/cupronickel heat exchange assembly to heat pool water
- Blower assembly for air delivery including high efficiency, direct drive blower
- Standard control and regulation components for optimal operation. Components include a water flow switch on pool piping, high and low pressure cutouts, overload circuit protection, a full capacity liquid receiver, refrigerant access ports on suction and discharge lines, a refrigerant line sight glass, and optional status lights
- Full-hermetic compressor for high efficiency and reliability
- Enamel coated evaporator and reheat coils (enhanced tube and fin) for superior performance and long service life
- Optional (bolt-on) fresh air dampers to assure proper ventilation
- Optional air cooled condensers to meet climate demands
- Optional factory installed spa water heat exchanger to maintain spa water temperature.

% RH	Return Air (Dry Bulb)	Dehumid Lbs/hr	Reheat MBtuh	Total Power Input (Kw)	Sens Cooling MBtuh	Tot Cooling MBtuh
50%	82°	8.7	16.5	2.30	15.5	24.2
	86°	9.5	17.8	2.41	15.6	25.1
	90°	10.5	19.2	2.54	15.6	26.1
60%	82°	11.3	19.4	2.37	13.8	25.2
	86°	12.7	21.2	2.51	13.6	26.3
	90°	13.8	22.9	2.65	13.4	27.3

External Static Pressure for Nominal Air Flow Rate = 900 CFM					
E.S.P.	1	2	3	4	5
Blower HP	15	17	19	22	24
Power (Kw)	23	26	29	33	36

Nominal Electrical Data (60Hz)		208V 1 Ph.	208V 3Ph
Compressor	Number of Compressors	1	1
	Rated Load Amps each (RLA)	10	6.6
	Locked Rotor Amps each (LRA)	61	50
Blower Motor	Number of Blower Motors	1	1
	Full Load Amps each (FLA)	1.6	1.6
	Motor HP	.25	.25
Unit Data	Minimum Circuit Ampacity	15.6	9.9
	Maximum Time Delay Fuse (Amps)	25	15

Nominal Performance Data*

Blower Data	Air Flow Rate	900 CFM
	External Static Pressure	5" IL0
	Blower Motor Power Input	.36 Kw
	Number of Blowers	1
Reheating	Nominal Blower Size (Dia x W)	9" x 7"
	Dehumidification Rate	8.7 Lbs/Hr
	Net Reheat Capacity	16.8 MBtuh
	Total Power Input	2.4 Kw
Cooling (Remote Air Cooled)	Total Cooling Capacity (gross)	24.2 MBtuh
	Sensible Cooling Capacity	15.5 MBtuh
	Dehumidification Rate	7.7 Lbs/Hr
	Total Cooling Capacity (net)	21.5 MBtuh
	Sensible Cooling Capacity	13.8 MBtuh
	Total Power Input	2.5 Kw
Total Heat Rejection		30.0 MBtuh
Remote A/C Condenser Model		FCB-2

Pool or Spa Water Pressure Drop			
Water Flow (GPM)	1.0	2.0	3.0
Pressure Drop (ft H ₂ O)	0.3	1.0	2.0

*Assumes Entering Air = 82° F / 50% RH; Outdoor Ambient = 95° F; Condensing Temp = 115° F; Dehumidification Rate = (Total Cooling - Sensible Cooling) / 1000.

Options

- * Bolt on Spa Heat Module
- * Remote Air Cooled Condenser
- * Refrigerant Gauges
- * Status Lights
- * Bolt on Fresh Air Damper
- * Fresh Air Ventilation Package
- * Vented Double Wall Heat Exchanger for Domestic Hot Water
- * Dehumidification Only
- * Custom Filter Packages

* Options may affect unit dimensions



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EH-016

APR's EH Series dehumidification system is designed for energy efficient control of indoor pool and spa environments in commercial and residential applications.

The EH Series system controls most major factors which are necessary for a healthy and comfortable pool environment, including room temperature and humidity; air ventilation and filtration; and pool water temperature.

High indoor air quality is at the heart of APR's total system approach. Advanced ventilation and filtration systems virtually eliminate unhealthy and potentially hazardous air borne corrosive elements, mold, mildew spores and certain viruses which are often found in indoor pool rooms

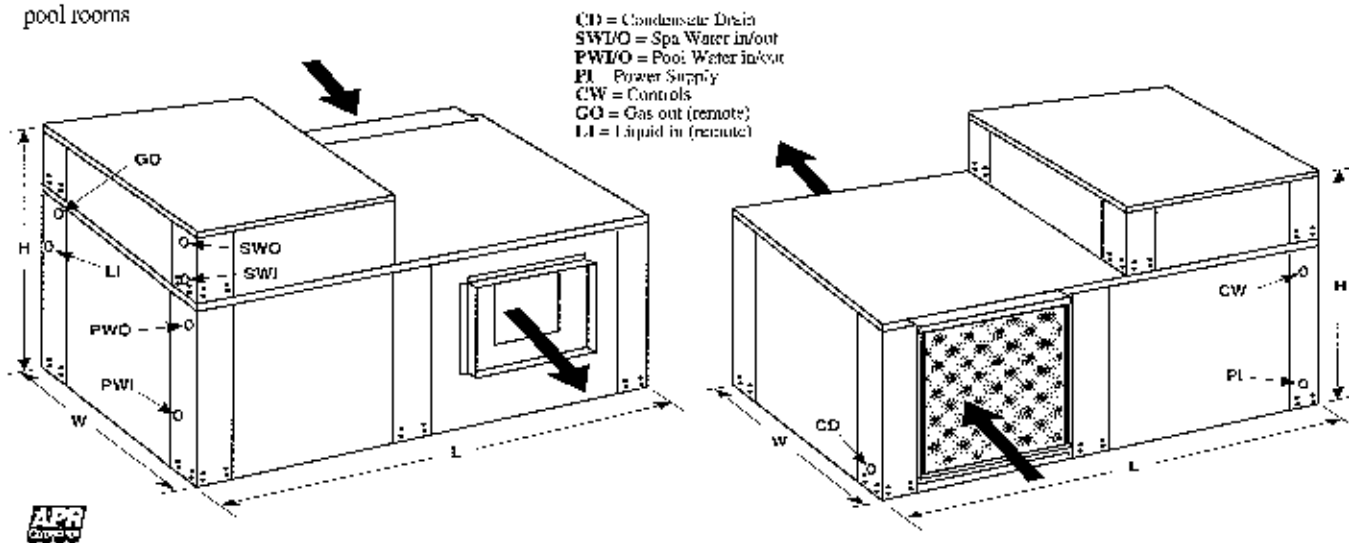
The APR EH-016 System is designed for use in applications with a total pool and spa surface area up to 450 square feet, and is ideal for pool areas in schools, health clubs, recreational facilities and residences where pool use is moderate.

The EH-016 removes approximately 16 pounds of moisture per hour while maintaining a comfortable environment of 50% RH, 80° F pool water and 82° F ambient.

Every EH-016 is computer modeled, lab verified and field tested for maximum dependability, high operating efficiency and long unit life.

Physical Characteristics

Without Spa Module (LxWxH)	49" x 36" x 25"
With Spa Module (LxWxH)	49" x 36" x 37"
Shipping Weight w/o Spa Module	450 (lbs)
Shipping Weight with Spa Module	500 (lbs)
R-22 Refrigerant Charge	10 (lbs)
Supply Air Duct (L x W)	14.5" x 12.5"
Return Air Duct (L x W)	25" x 20-1/8"
Pool Heat in/out - Cu	1" FPT
Opt. Spa Heat in/out - Cu	1" FPT
Remote Condenser Gas-Cu	5/8" OD
Remote Condenser Liquid-Cu	1/2" OD
Filters (L x W)	(1) 20" x 25"



EH-016 APR EH Horizontal Series Dehumidification Equipment

Outstanding Features for Exceptional Performance

- Components matched to load for high energy efficiency and superior performance - Kw/lb as low as .188 are achievable
- High efficiency filter banks for high IAQ
- Heavy duty construction for extended service life, including heavy gauge galvaneal panels with powder coated polyester finish
- Designed for ease of installation and maintenance with electrical knock-outs and removable panels
- Corrosion resistant construction to prolong component life. Compressors, valves and controls are outside of air stream. A corrosion resistant coating is applied to coils, blower assembly, piping and frame.

- Stainless steel fasteners are used when appropriate
- Insulated and compartmentalized for quiet operation and to eliminate component exposure to corrosive chlorine. High density insulation is applied to all panels. Compressor and blowers are in separate compartments
- Vented, double-wall, copper/cupronickel heat exchange assembly to heat pool water
- Blower assembly for air delivery including high efficiency blower motors with adjustable "V" belt motor pulleys
- Standard control and regulation components for optimal operation. Components include a water flow switch on pool piping, high

- and low pressure cutouts, overload circuit protection, a full capacity liquid receiver, refrigerant access ports on suction and discharge lines, a refrigerant line sight glass, and optional status lights
- Full-hermetic compressor for high efficiency and reliability
- Enamel coated evaporator and reheat coils (enhanced tube and fin) for superior performance and long service life
- Optional (bolt-on) fresh air dampers to assure proper ventilation
- Optional air cooled condensers to meet climate demands
- Optional factory installed spa water heat exchanger to maintain spa water temperature.

%RH	Return Air (Dry Bulb)	Dehumid. Lbs/hr	Reheat MBtuh	Total Power Input (Kw)	Sens. Cooling MBtuh	Tot. Cooling MBtuh
50%	82°	16.0	30.0	4.11	25.3	41.3
	86°	17.6	32.5	4.35	25.3	43.0
	90°	19.5	35.3	4.62	25.2	44.7
60%	82°	20.2	34.8	4.27	22.8	43.1
	86°	22.6	33.2	4.56	22.4	45.0
	90°					

Consult Factory

External Static Pressure for Nominal Air Flow Rate = 1,300 CFM					
ESP	1	2	3	4	5
Blower HP	.35	.38	.42	.45	.50
Power(Kw)	.42	.46	.51	.54	.60

Nominal Electrical Data (60Hz)		208V 1Ph	208V 3 Ph	460V 3Ph
Compressor	Number of Compressors	1	1	1
	Rated Load Amps each (RLA)	19.3	11.7	5.7
	Locked Rotor Amps each (LRA)	111	78	39
Blower Motor	Number of Blower Motors	1	1	1
	Full Load Amps each (FLA)	7.6	3.1	1.4
	Motor HP	1	1	1
Unit Data	Minimum Circuit Ampacity	32.6	19.1	9
	Maximum Time Delay Fuse (Amps)	50	30	15

Nominal Performance Data*

Blower Data	Air Flow Rate	1,300 CFM
	External Static Pressure	.5" IL0
	Blower Motor Power Input	.60 Kw
	Number of Blowers	1
Nominal Blower Size (Dia x W)		10" x 10"
Reheating	Dehumidification Rate	16.0Lbs/Hr
	Net Reheat Capacity	30.0 MBtuh
	Total Power Input	4.1 Kw
Cooling (Remote Air Cooled)	Total Cooling Capacity (gross)	41.3 MBtuh
	Sensible Cooling Capacity	25.3 MBtuh
	Dehumidification Rate	15.4 Lbs/Hr
	Total Cooling Capacity (net)	38.2 MBtuh
	Sensible Cooling Capacity	22.7 MBtuh
Total Power Input		4.2 Kw
Total Heat Rejection		52.6 MBtuh
Remote A/C Condenser Model		FCB-5

Pool or Spa Water Pressure Drop			
Water Flow (GPM)	3.0	4.0	5.0
Pressure Drop (ft H ₂ O)	2.0	3.2	4.8

*Assumes Entering Air = 82° F / 50% RH; Outdoor Ambient = 95° F; Condensing Temp = 115° F; Dehumidification Rate = (Total Cooling - Sensible Cooling) / 1000.

Options

- * Bolt on Spa Heat Module
- * Remote Air Cooled Condenser
- * Refrigerant Gauges
- * Status Lights
- * Bolt on Fresh Air Damper
- * Fresh Air Ventilation Package
- * Vented Double Wall Heat Exchanger for Domestic Hot Water
- * Dehumidification Only
- * Custom Filter Packages

* Options may affect unit dimensions



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 6016
 APRI-TEMPERATURE CONTROLLED SYSTEMS MANUFACTURING TECHNOLOGIES

EH-025

APR's EH Series dehumidification system is designed for energy efficient control of indoor pool and spa environments in commercial and residential applications.

The EH Series system controls most major factors which are necessary for a healthy and comfortable pool environment, including room temperature and humidity; air ventilation and filtration; and pool water temperature.

High indoor air quality is at the heart of APR's *total system approach*. Advanced ventilation and filtration systems virtually eliminate unhealthy and potentially hazardous air borne corrosive elements, mold, mildew spores and certain viruses which are often found in indoor pool rooms.

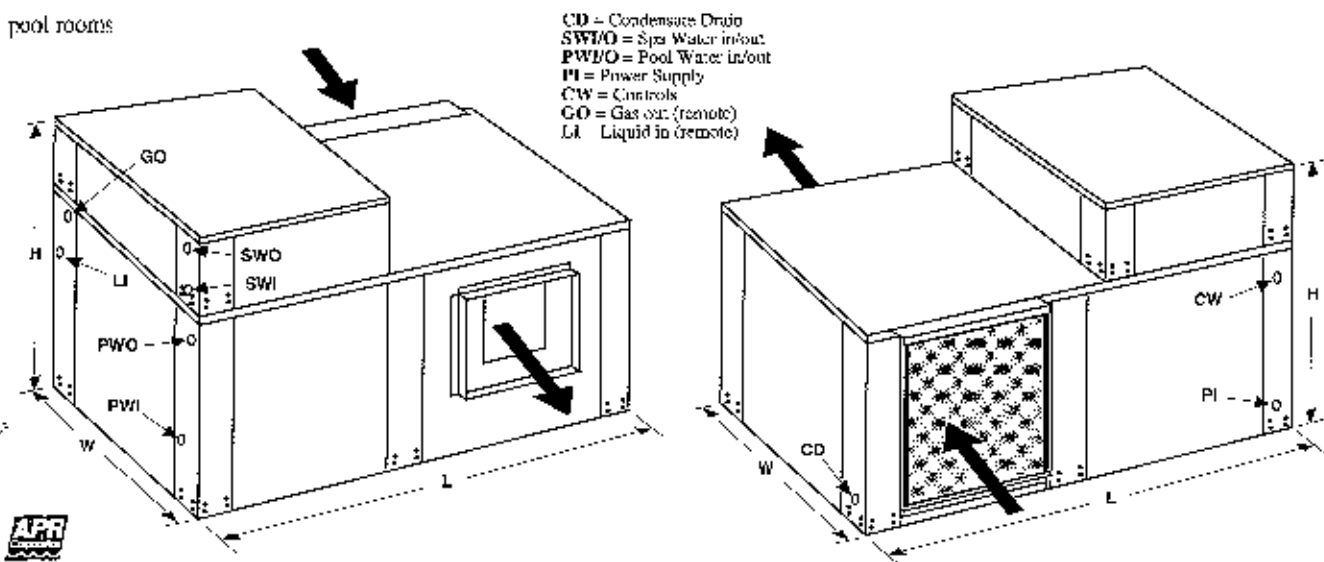
The APR EH-025 System is designed for use in applications with a total pool and spa surface area up to 550 square feet, and is ideal for pool areas in schools, health clubs, recreational facilities and residences where pool use is moderate.

The EH-025 removes approximately 25 pounds of moisture per hour while maintaining a comfortable environment of 50% RH, 80° F pool water and 82° F ambient.

Every EH-025 is computer modeled, lab verified and field tested for maximum dependability, high operating efficiency and long unit life.

Physical Characteristics

Without Spa Module (LxWxH)	48" x 36.5" x 39"
With Spa Module (LxWxH)	48" x 36.5" x 51"
Shipping Weight w/o Spa Module	550 (lbs)
Shipping Weight with Spa Module	600 (lbs)
R-22 Refrigerant Charge	19 (lbs)
Supply Air Duct (L x W)	14.5" x 12.6"
Return Air Duct (L x W)	25" x 36"
Pool Heat in/out-Cu	1" FPT
Opt. Spa Heat in/out-Cu	1" FPT
Remote Condenser Gas-Cu	5/8" OD
Remote Condenser Liquid-Cu	1/2" OD
Filters (L x W)	(1) 16" x 25"
	(1) 20" X 25"



Outstanding Features for Exceptional Performance

- Components matched to load for high energy efficiency and superior performance - Kw/lb as low as .188 are achievable
- High efficiency filter banks for high IAQ
- Heavy duty construction for extended service life, including heavy gauge galvalent panels with powder coated polyester finish
- Designed for ease of installation and maintenance with electrical knock-outs and removable panels
- Corrosion resistant construction to prolong component life. Compressors, valves and controls are outside of air stream. A corrosion resistant coating is applied to coils, blower assembly, piping and frame.

- Stainless steel fasteners are used when appropriate
- Insulated and compartmentalized for quiet operation and to eliminate component exposure to corrosive chlorine. High density insulation is applied to all panels. Compressor and blowers are in separate compartments
- Vented, double-wall, copper/cupronickel heat exchange assembly to heat pool water
- Blower assembly for air delivery including high efficiency blower motors with adjustable "V" belt motor pulleys
- Standard control and regulation components for optimal operation. Components include a water flow switch on pool piping, high

- and low pressure cutouts, overload circuit protection, a full capacity liquid receiver, refrigerant access ports on suction and discharge lines, a refrigerant line sight glass, and optional status lights
- Full-hermetic compressor for high efficiency and reliability
- Enamel coated evaporator and reheat coils (enhanced tube and fin) for superior performance and long service life
- Optional (bolt-on) fresh air dampers to assure proper ventilation
- Optional air cooled condensers to meet climate demands
- Optional factory installed spa water heat exchanger to maintain spa water temperature.

% RH	Return Air (Dry Bulb)	Dehumid Lbs/hr	Reheat MBtu/h	Total Power Input (Kw)	Sens Cooling MBtu/h	Total Cooling MBtu/h
50%	82°	23.4	44.6	6.22	41.6	63.0
	86°	25.9	48.1	6.53	42.0	67.9
	90°	28.9	52.4	6.89	42.0	70.9
60%	82°	30.7	32.6	6.43	37.2	67.9
	86°	34.5	37.7	6.81	36.8	71.2
	90°	37.9	62.5	7.20	36.4	74.3

External Static Pressure for Nominal Air Flow Rate = 2,400 CFM						
ESP	.3	.4	.5	.6	.7	.8
Blower HP	.95	1.00	1.05	1.10	1.15	1.19
Power(Kw)	.90	.95	1.00	1.05	1.09	1.13

Nominal Electrical Data (60Hz)		208V 1Ph	208V 3 Ph	460V 3Ph
Compressor	Number of Compressors	1	1	1
	Rated Load Amps each (RLA)	28.8	17.5	8.8
	Locked Rotor Amps each (LRA)	178	124	62
Blower Motor	Number of Blower Motors	1	1	1
	Full Load Amps each (FLA)	9	5.7	2.6
Unit Data	Motor HP	1.5	1.5	1.5
	Minimum Circuit Ampacity	46.7	31.3	15.4
Unit Data	Maximum Time Delay Fuse (Amps)	70	45	20

Nominal Performance Data*

Blower Data	Air Flow Rate	2,400 CFM
	External Static Pressure	.5" IL0
	Blower Motor Power Input	1.00 Kw
	Number of Blowers	1
Reheating	Nominal Blower Size (Dia x W)	12" x 9"
	Dehumidification Rate	23.4 Lbs/Hr
	Net Reheat Capacity	44.5 MBtu/h
	Total Power Input	6.2 Kw
Cooling (Remote Air Cooled)	Total Cooling Capacity (gross)	65.0 MBtu/h
	Sensible Cooling Capacity	41.6 MBtu/h
	Dehumidification Rate	21.8 Lbs/Hr
	Total Cooling Capacity (net)	58.8 MBtu/h
	Sensible Cooling Capacity	37.1 MBtu/h
	Total Power Input	9.6 Kw
Total Heat Rejection		121.0 MBtu/h
Remote A/C Condenser Model		FCB-8

Pool or Spa Water Pressure Drop			
Water Flow (GPM)	4.0'	5.0'	6.0'
Pressure Drop (ft H ₂ O)	1.0	1.5	2.0

*Assumes Entering Air = 82° F / 50% RH; Outdoor Ambient = 95° F; Condensing Temp = 115° F; Dehumidification Rate (Total Cooling - Sensible Cooling) / 1060.

Options

- * Bolt on Spa Heat Module
- * Remote Air Cooled Condenser
- * Refrigerant Gauges
- * Status Lights
- * Bolt on Fresh Air Damper
- * Fresh Air Ventilation Package
- * Vented Double Wall Heat Exchanger for Domestic Hot Water
- * Dehumidification Only
- * Custom Filter Packages

* Options may affect unit dimensions



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EH-036

APR's EII Series dehumidification system is designed for energy efficient control of indoor pool and spa environments in commercial and residential applications.

The EH Series system controls most major factors which are necessary for a healthy and comfortable pool environment, including room temperature and humidity; air ventilation and filtration; and pool water temperature.

High indoor air quality is at the heart of APR's *total system approach*. Advanced ventilation and filtration systems virtually eliminate unhealthy and potentially hazardous air borne corrosive elements, mold, mildew spores and certain viruses which are often found in indoor pool rooms.

The APR EII-036 System is designed for use in applications with a total pool and spa surface area up to 900 square feet, and is ideal for pool areas in schools, health clubs, recreational facilities and residences where pool use is moderate.

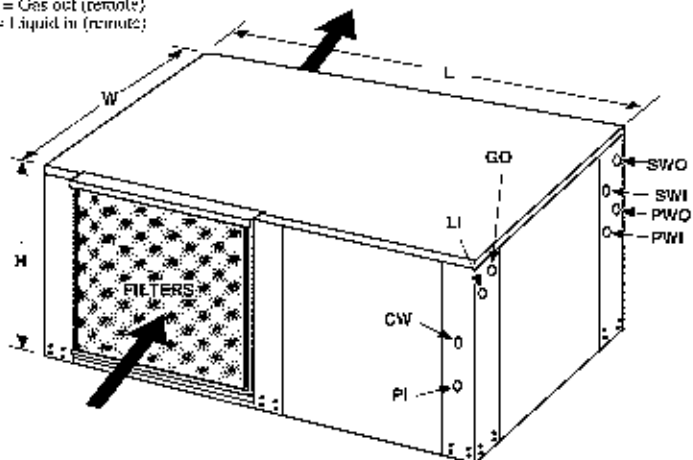
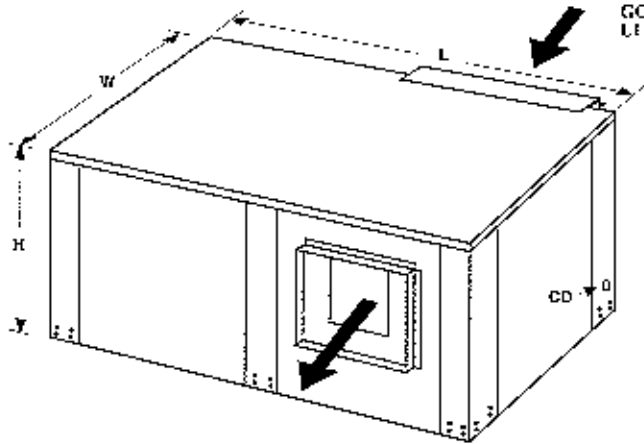
The EH-036 removes approximately 40 pounds of moisture per hour while maintaining a comfortable environment of 50% RH, 80° F pool water and 82° F ambient.

Every EH-036 is computer modeled, lab verified and field tested for maximum dependability, high operating efficiency and long unit life.

Physical Characteristics

Horizontal (L x W x H)	67" x 44" x 44"
Unit Shipping Weight	1000 (lbs)
R-22 Refrigerant Charge	23 (lbs)
Supply Air Duct (L x W)	16-3/4" x 18"
Return Air Duct (L x W)	32" x 36"
Pool Heat in/out-Cu	1" FPT
Opt. Spa Heat in/out-Cu	1" FPT
Remote Condenser Gas-Cu	7/8" OD
Remote Condenser Liquid-Cu	5/8" OD
Filters (L x W)	(2) 16" x 20" (2) 20" x 20"

CD = Condensate Drain
 SW/O = Spa Water in/out
 PW/O = Pool Water in/out
 PI = Power Supply
 CW = Controls
 GO = Gas out (remote)
 LI = Liquid in (remote)



Outstanding Features for Exceptional Performance

- Components matched to load for high energy efficiency and superior performance - Kw/h as low as 188 are achievable
- High efficiency filter banks for high IAQ
- Heavy duty construction for extended service life, including heavy gauge galvaneal panels with powder coated polyester finish
- Designed for ease of installation and maintenance with electrical knock-outs and removable panels
- Corrosion resistant construction to prolong component life. Compressors, valves and controls are outside of air stream. A corrosion resistant coating is applied to coils, blower assembly, piping and frame.

- Stainless steel fasteners are used when appropriate
- Insulated and compartmentalized for quiet operation and to eliminate component exposure to corrosive chlorine. High density insulation is applied to all panels. Compressor and blowers are in separate compartments
- Vented, double-wall, copper/cupronickel heat exchange assembly to heat pool water
- Blower assembly for air delivery including high efficiency blower motors with adjustable "V" belt motor pulleys
- Standard control and regulation components for optimal operation. Components include a water flow switch on pool piping, high

- and low pressure cutouts, overload circuit protection, a full capacity liquid receiver, refrigerant access ports on suction and discharge lines, a refrigerant line sight glass, and optional status lights
- Full-hermetic compressor for high efficiency and reliability
- Enamel coated evaporator and reheat coils (enhanced tube and fin) for superior performance and long service life
- Optional (bolt-on) fresh air dampers to assure proper ventilation
- Optional air cooled condensers to meet climate demands
- Optional factory installed spa water heat exchanger to maintain spa water temperature

% RH	Return Air (Dry Bulb)	Dehumid. Lbs/hr	Reheat MBtu/h	Total Power Input (Kw)	Sens. Cooling MBtu/h	Tot Cooling MBtu/h
50%	82°	35.0	66.1	9.14	61.3	96.3
	86°	38.6	71.6	9.68	61.8	100.2
	90°	42.7	77.9	10.31	61.6	104.3
60%	82°	45.6	78.0	9.50	54.8	100.4
	86°	50.9	85.6	10.15	53.9	104.9
	90°	55.7	92.7	10.85	53.2	108.9

External Static Pressure for Nominal Air Flow Rate = 3,500 CFM						
ESP	3"	4"	5"	6"	7"	8"
Blower HP	1.30	1.37	1.42	1.51	1.59	1.66
Power (Kw)	1.2	1.3	1.4	1.4	1.5	1.6

Nominal Electrical Data (3Phase 60Hz)		208 V	460 V
Compressor	Number of Compressors	1	1
	Rated Load Amps each (RLA)	28.6	14.0
	Locked Rotor Amps each (LRA)	157	79
Blower Motor	Number of Blower Motors	1	1
	Full Load Amps each (FLA)	6.5	3.1
	Motor IIP	2	2
Unit Data	Minimum Circuit Ampacity	42.1	20.7
	Maximum Time Delay Fuse (Amps)	70	30

Nominal Performance Data*

Blower Data	Air-Flow Rate	3,500 CFM
	External Static Pressure	.5" H ₂ O
	Blower Motor Power Input	1.4 Kw
	Number of Blowers	1
Reheating	Nominal Blower Size (Dia x W)	15" x 11"
	Dehumidification Rate	35.0 Lbs/Hr
	Net Reheat Capacity	66.1 MBtu/h
	Total Power Input	9.1 Kw
Cooling (Remote Air Cooled)	Total Cooling Capacity (gross)	96.3 MBtu/h
	Sensible Cooling Capacity	61.3 MBtu/h
	Dehumidification Rate	32.9 Lbs/Hr
	Total Cooling Capacity (net)	88.1 MBtu/h
	Sensible Cooling Capacity	55.2 MBtu/h
	Total Power Input	9.6 Kw
	Total Heat Rejection	121.0 MBtu/h
	Remote A/C Condenser Model	FCB-12

Pool or Spa Water Pressure Drop			
Water Flow (GPM)	6.0	9.0	12.0
Pressure Drop (Ft. H ₂ O)	2.2	4.4	7.3

*Assumes Entering Air = 82° F / 50% RH; Outdoor Ambient = 95° F; Condensing Temp = 115° F; Dehumidification Rate = (Total Cooling - Sensible Cooling) / 1000.

Options

- * Spa Heat
- * Remote Air Cooled Condenser
- * Refrigerant Gauges
- * Status Lights
- * Bolt on Fresh Air Damper
- * Fresh Air Ventilation Package
- * Vented Double Wall Heat Exchanger for Domestic Hot Water
- * Dehumidification Only
- * Custom Filter Packages

* Options may affect unit dimensions



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APR Corporation works continuously to improve its products. As a result, the design and specification of each product at the time of order may be changed without notice and may not be as described herein. Please contact APR Corporation's Customer Service Department at (405) 745-6000 for specific information on the current design and specifications. Statements and other information contained herein are not express warranties and do not form the basis of any bargain between the parties, but are merely APR Corporation's opinion of its products.

APRI-TECH INTERNATIONAL SPECIALS PERFORMANCES, THROUGHOUTS
 AND PERFORMANCE DATA



APR's EH Series dehumidification system is designed for energy efficient control of indoor pool and spa environments in commercial and residential applications.

The EH Series system controls most major factors which are necessary for a healthy and comfortable pool environment, including room temperature and humidity; air ventilation and filtration; and pool water temperature.

High indoor air quality is at the heart of APR's total system approach. Advanced ventilation and filtration systems virtually eliminate unhealthy and potentially hazardous air borne corrosive elements, mold, mildew spores and certain viruses which are often found in indoor pool rooms

The APR LH-060 System is designed for use in applications with a total pool and spa surface area up to 1200 square feet, and is ideal for pool areas in schools, health clubs, recreational facilities and residences where pool use is moderate.

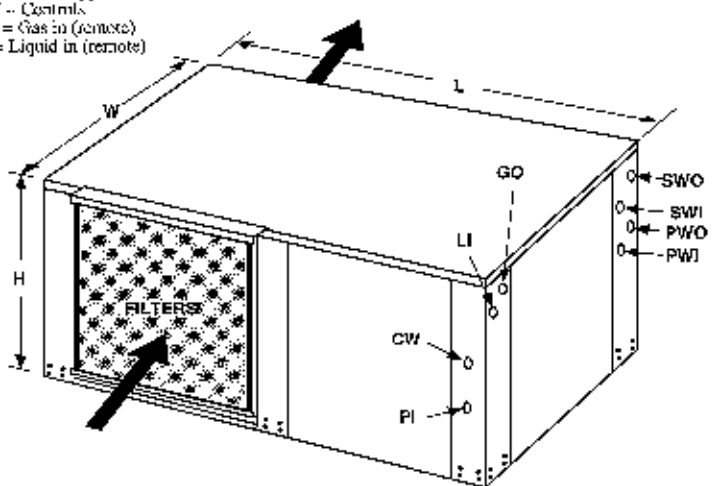
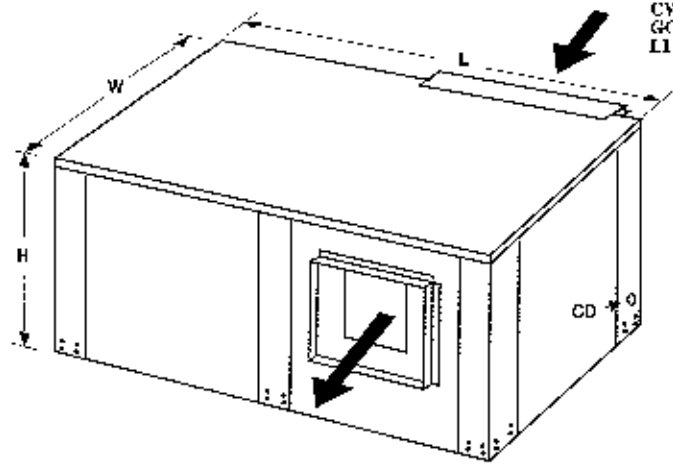
The EH-060 removes approximately 60 pounds of moisture per hour while maintaining a comfortable environment of 50% RH, 80° F pool water and 82° F ambient.

Every EH-060 is computer modeled, lab verified and field tested for maximum dependability, high operating efficiency and long unit life.

Physical Characteristics

Horizontal (L x W x H)	76" x 44" x 52.5"
Unit Shipping Weight	1200 (lbs)
R-22 Refrigerant Charge	36 (lbs)
Supply Air Duct (L x W)	16-3/4" x 18"
Return Air Duct (L x W)	32" x 45"
Pool Heat in/out-Cu	1" FPT
Opt. Spa Heat in/out-Cu	1" FPT
Remote Condenser Gas-Cu	1-1/8" OD
Remote Condenser Liquid-Cu	7/8" OD
Filters (L x W)	(2) 16" x 20"
	(2) 16" X 25"

- CD = Condensate Drain
- SWI/O = Spa Water in/out
- PWI/O = Pool Water in/out
- PI = Power Supply
- CW = Controls
- GO = Gas in (remote)
- LI = Liquid in (remote)



Outstanding Features for Exceptional Performance

- Components matched to load for high energy efficiency and superior performance - Kw/lb as low as .188 are achievable
- High efficiency filter banks for high IAQ
- Heavy duty construction for extended service life, including heavy gauge galvaneal panels with powder coated polyester finish
- Designed for ease of installation and maintenance with electrical knock-outs and removable panels
- Corrosion resistant construction to prolong component life. Compressors, valves and controls are outside of air stream. A corrosion resistant coating is applied to coils, blower assembly, piping and frame.

- Stainless steel fasteners are used when appropriate
- Insulated and compartmentalized for quiet operation and to eliminate component exposure to corrosive chlorine. High density insulation is applied to all panels. Compressor and blowers are in separate compartments
- Vented, double-wall, copper/cupronickel heat exchange assembly to heat pool water
- Blower assembly for air delivery including high efficiency blower motors with adjustable "V" belt motor pulleys
- Standard control and regulation components for optimal operation. Components include a water flow switch on pool piping, high

- and low pressure cutouts, overload circuit protection, a full capacity liquid receiver, refrigerant access ports on suction and discharge lines, a refrigerant line sight glass, and optional status lights
- Full-hermetic compressor for high efficiency and reliability
- Enamel coated evaporator and reheat coils (enhanced tube and fin) for superior performance and long service life
- Optional (bolt-on) fresh air dampers to assure proper ventilation
- Optional air cooled condensers to meet climate demands
- Optional factory installed spa water heat exchanger to maintain spa water temperature

% RH	Return Air (Dry Bulb)	Dehumid. Lbs/hr	Reheat MBtuh	Total Power Input (Kw)	Sens Cooling MBtuh	Tot Cooling MBtuh
50%	82°	54.1	103.0	14.33	89.1	143.2
	86°	59.5	111.4	15.22	89.4	148.9
	90°	65.8	121.2	16.23	88.9	154.6
60%	82°	69.3	120.2	14.95	80.1	149.3
	86°	77.2	131.8	15.99	78.6	155.8
	90°	84.3	142.8	17.12	77.2	161.6

External Static Pressure for Nominal Air Flow Rate = 4,800 CFM*						
ESP	.3	.4	.5	.6	.7	.8
Blower HP	2.36	2.45	2.54	2.63	2.72	2.82
Power(Kw)	2.1	2.2	2.3	2.4	2.5	2.6

Nominal	Electrical Data (3Phase 60Hz)	
	208 V	460 V
Compressor	Number of Compressors	1
	Rated Load Amps each (RLA)	461
	Locked Rotor Amps each (LRA)	259
Blower Motor	Number of Blower Motors	1
	Full Load Amps each (FLA)	10.6
	Motor HP	3
Unit Data	Minimum Circuit Ampacity	61.9
	Maximum Time Delay Fuse (Amps)	100

Nominal Performance Data*

Blower Data	Air Flow Rate	4,800 CFM
	External Static Pressure	.5" H ₂ O
	Blower Motor Power Input	2.3 Kw
	Number of Blowers	1
Reheating	Nominal Blower Size (Dia x W)	15" x 11"
	Dehumidification Rate	54.1 Lbs/Hr
	Net Reheat Capacity	103.0 MBtuh
	Total Power Input	14.3 Kw
Cooling (Remote Air Cooled)	Total Cooling Capacity (gross)	145.2 MBtuh
	Sensible Cooling Capacity	89.1 MBtuh
	Total Heat Rejection	182.4 MBtuh
	Total Cooling Capacity (net)	131.9 MBtuh
	Sensible Cooling Capacity	79.7 MBtuh
	Total Power Input	14.8 Kw
	Total Heat Rejection	182.4 MBtuh
	Remote A/C Condenser Model	PCB-16

Pool or Spa Water Pressure Drop		
Water Flow (GPM)	10.0	15.0
Pressure Drop (Ft H ₂ O)	5.3	10.7

*Assumes Entering Air = 82° F / 50% RH; Outdoor Ambient = 95° F; Condensing Temp = 115° F; Dehumidification Rate = (Total Cooling Sensible Cooling) / 1000.

Options

- Spa Heat
- Remote Air Cooled Condenser
- Refrigerant Gauges
- Status Lights
- Bolt on Fresh Air Damper
- Fresh Air Ventilation Package
- Vented Double Wall Heat Exchanger for Domestic Hot Water
- Dehumidification Only
- Custom Filter Packages

* Options may affect unit dimensions



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025

APR's EV Series dehumidification system is designed for energy efficient control of indoor pool and spa environments in commercial and residential applications.

The EV Series system controls most major factors which are necessary for a healthy and comfortable pool environment, including room temperature and humidity; air ventilation and filtration; and pool water temperature.

High indoor air quality is at the heart of APR's *total system approach*. Advanced ventilation and filtration systems virtually eliminate unhealthy and potentially hazardous air borne corrosive elements, mold, mildew spores and certain viruses which are often found in indoor pool rooms.

The APR EV-025 System is suitable for retrofit applications since its very narrow 34" wide profile fits easily through a stan-

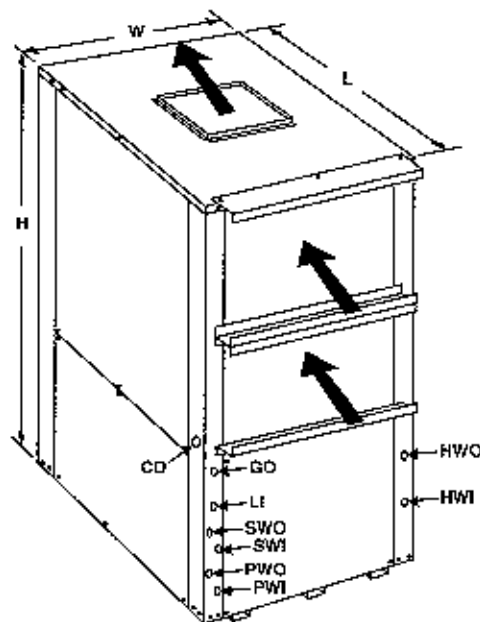
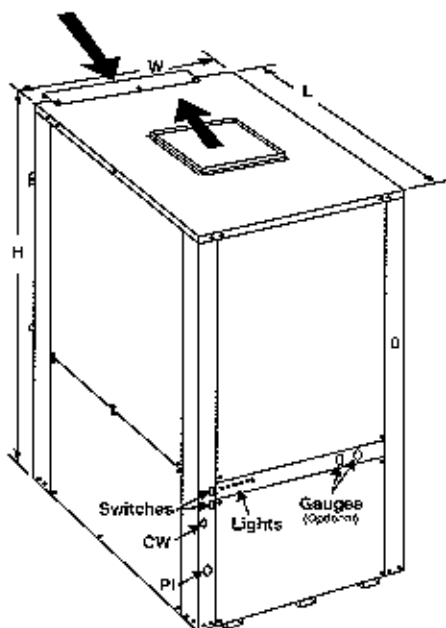
dard 36" doorway. It is designed to accommodate a total pool and spa surface area up to 550 square feet, and is ideal for pool areas in health clubs, recreational facilities and residences where pool use is low to moderate.

The EV-025 removes approximately 25 pounds of moisture per hour while maintaining a comfortable environment of 50% RH, 80° F pool water and 82° F ambient.

Every EV-025 is computer modeled, lab verified and field tested for maximum dependability, high operating efficiency and long unit life. The EV-025 is UL listed for owner peace of mind.

Physical Characteristics

Vertical (H x W x L)	70" x 34" x 45"
Supply Air Duct (L x W)	14-5/8" x 13-3/8"
Unit Shipping Weight (lbs)	600
R-22 Refrigerant Charge (lbs)	16
Return Air Duct (L x W)	38" x 26"
Evaporator Coil Face	12.0 (Sq. Ft.)
Reheat Coil Face	13.3 (Sq. Ft.)
Pool Heat (PVC) in/out	1-1/2" ID
Opt. Spa Heat (CPVC) in/out	1-1/2" ID
Opt. Hot Water (Cu) in/out	7/8" OD
Remote Condenser Gas-Cu	7/8" OD
Remote Condenser Liquid-Cu	5/8" OD
Filters (L x W)	(2) 20" x 28"



CD = Condensate Drain
 SW/O = Spa Water in/out
 PW/O = Pool Water in/out
 HW/O = Hot Water in/out
 PI = Power Supply
 CW = Controls
 GO = Gas out (remote)
 L = Liquid in



EV 025 APR EV Vertical Series Dehumidification Equipment

Outstanding Features for Exceptional Performance

- Components matched to load for high energy efficiency and superior performance - Kw/lb as low as .137 are achievable
- High efficiency filter banks for high IAQ
- Heavy duty construction for extended service life, including heavy gauge galvaneal panels with powder coated polyester finish
- Designed for ease of installation and maintenance with 34" wide profile, electrical knock-outs and removable panels
- Corrosion resistant construction to prolong component life. Compressors, valves and controls are outside of air stream. A corrosion resistant coating is applied to coils, blower assembly, piping and frame. Stainless steel fasteners are used when appropriate
- Insulated and compartmentalized for quiet operation and to eliminate compo-

- nent exposure to corrosive chlorine. High density insulation is applied to all panels. Compressor and blowers are in separate compartments
- Vented, double-wall, copper/cupronickel heat exchange assembly to heat pool water
- Integrated DDC microprocessor system for full system control
- Blower assembly for air delivery including high efficiency blower motors with adjustable "V" belt motor pulleys
- Standard control and regulation components for optimal operation. Components include a water flow switch on pool piping, high and low pressure cutouts, overload circuit protection, a full capacity liquid receiver, refrigerant access ports on suction and discharge lines, a refrigerant line sight glass, and status lights

- Full hermetic compressor for maximum efficiency and reliability
- Enamel coated evaporator and reheat coils (enhanced tube and fin) for superior performance and long service life
- Optional auxiliary air heating coils to supplement room heat
- Optional fresh air dampers to assure proper ventilation
- Optional air or water cooled condensers to meet climate demands
- Optional factory installed auxiliary pool water heat exchanger (fed by a boiler) to maintain pool water temperature when filling the pool or when the dehumidification system is not required
- Optional factory installed spa water heat exchanger (fed by boiler or refrigerant cycle) to maintain spa water temperature

% RH	Return Air (Dry Bulb)	Dehumid. Lbs/Hr	Reheat MBtu/h	Total Power Input (Kw)	Sens. Cooling MBtu/h	Tot Cooling MBtu/h
50%	82°	24.9	40.5	4.6	42.9	67.8
	86°	27.6	44.1	4.9	42.9	70.4
	90°	30.3	47.9	5.2	42.8	73.2
60%	82°	32.2	48.5	4.7	38.3	70.5
	86°	35.9	53.1	5.1	37.6	73.5
	90°	39.3	57.6	5.4	37.1	76.8

External Static Pressure for Nominal Air Flow Rate = 2,400 CFM						
ESP	.3	.4	.5	.6	.7	.8
Blower HP	.75	.80	.84	.90	.94	.99
Power (Kw)	.71	.76	.80	.85	.90	.94

Nominal Electrical Data (60Hz)		208V/3Ph	208V/3Ph	460V/3Ph
Compressor	Number of Compressors	1	1	1
	Rated Load Amps each (RLA)*	32.1	19.3	10.0
	Locked Rotor Amps each (LRA)*	169	123	62
Blower Motor	Number of Blower Motors	1	1	1
	Full Load Amps each (FLA)	9.0	5.7	2.6
	Motor HP	1.5	1.5	1.5
Unit Data	Minimum Circuit Ampacity	49.1	29.8	15.1
	Maximum Time Delay Fuse (Amps)	80	45	25

Pool or Spa Water Pressure Drop		
Water Flow (GPM)	4	5
Pressure Drop (Ft H ₂ O)	1.0	1.5

Options

- * Auxiliary Space Heat
- * Spa Heat
- * Water Cooled Condenser
- * Remote Air Cooled Condenser
- * Stainless Steel Condensate Pan
- * Frost Guard System
- * Vented Double Wall Heat Exchanger for Domestic Hot Water
- * Fresh Air Ventilation Package
- * Dehumidification Only
- * Remote DDC Control
- * Custom Filter Packages

* Options may affect unit dimensions

Nominal Performance Data*

Blower Data	Air Flow Rate**	2,400 CFM
	External Static Pressure***	.5" H ₂ O
	Blower Motor Power Input	.8 Kw
Reheating	Dehumidification Rate	24.9 Lbs/Hr
	Net Reheat Capacity	40.5 MBtu/h
	Total Power Input	4.6 Kw
	Total Cooling Capacity (gross)	67.8 MBtu/h
Cooling (Remote Air Cooled)	Sensible Cooling Capacity	42.9 MBtu/h
	Dehumidification Rate	22.8 Lbs/Hr
	Total Cooling Capacity (net)	61.4 MBtu/h
	Sensible Cooling Capacity	38.5 MBtu/h
Hot Water Heating (Optional)	Total Power Input	5.3 Kw
	Total Heat Rejection	79.5 MBtu/h
	Remote A/C Condenser Model	FCB-8
Hot Water Heating (Optional)	Coil Heating Capacity	69.2 MBtu/h
	Hot Water Flow Rate	7 GPM
	Pressure Drop (Hot Water)	4.2 Ft H ₂ O
General Data		
Blower Data	Blower Size (nom) Dia. x W	12" x 9"
	Number of Blowers	1
Evaporator Coil	Face Area	5.3
	Number of Rows	4
	Tube O.D.	3/8"
	Fins per Inch	12
Reheat Coil	Face Area	6.0
	Number of Rows	3
	Tube O.D.	3/8"
	Fins per Inch	14

* Assumes Entering Air = 82° F / 50% RH; Outdoor Ambient = 55° F; Condensing Temp = 115° F; Heating Hot Water from Boiler = 200° F; Dehumidification Rate = (Total Cooling Sensible Cooling) / 1000.



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040

APR's EV Series dehumidification system is designed for energy efficient control of indoor pool and spa environments in commercial and residential applications.

The EV Series system controls most major factors which are necessary for a healthy and comfortable pool environment, including room temperature and humidity; air ventilation and filtration; and pool water temperature.

High indoor air quality is at the heart of APR's total system approach. Advanced ventilation and filtration systems virtually eliminate unhealthy and potentially hazardous airborne corrosive elements, mold, mildew spores and certain viruses which are often found in indoor pool rooms.

The APR EV-040 System is suitable for retrofit applications since its very narrow 34" wide profile fits easily through a stan-

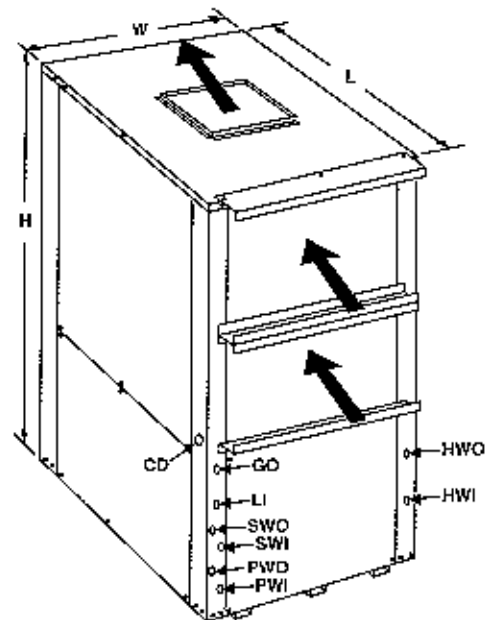
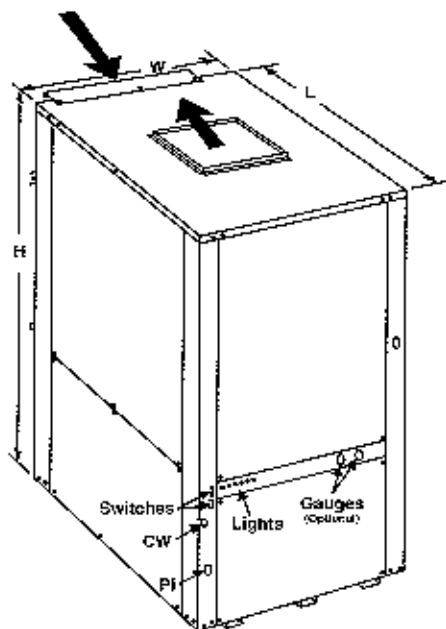
dard 36" doorway. It is designed to accommodate a total pool and spa surface area up to 900 square feet, and is ideal for pool areas in health clubs, recreational facilities and residences where pool use is low to moderate.

The EV-040 removes approximately 40 pounds of moisture per hour while maintaining a comfortable environment of 50% RH, 80° F pool water and 82° F ambient.

Every EV-040 is computer modeled, lab verified and field tested for maximum dependability, high operating efficiency and long unit life. The EV-040 is UL listed for owner peace of mind.

Physical Characteristics

Vertical (H x W x L)	70" x 34" x 45"
Supply Air Duct (L x W)	17-3/8" x 16"
Unit Shipping Weight (lbs)	1000
R-22 Refrigerant Charge (lbs)	20
Return Air Duct (L x W)	38" x 26"
Evaporator Coil Face	12.0 (Sq Ft)
Reheat Coil Face	13.3 (Sq. Ft.)
Pool Heat (PVC) in/out	1-1/2" ID
Opt. Spa Heat (CPVC) in/out	1-1/2" ID
Opt. Hot Water (Cu) in/out	1-3/8" ID
Remote Condenser Gas-Cu	1-1/8" OD
Remote Condenser Liquid-Cu	7/8" OD
Filters (L x W)	(2) 20" x 28"



CD = Condensate Drain
 SW/O = Spa Water in/out
 PW/O = Pool Water in/out
 HW/O = Hot Water in/out
 PI = Power Supply
 CW = Controls
 GO = Gas-uct (remote)
 LI = Liquid in



Outstanding Features for Exceptional Performance

- Components matched to load for high energy efficiency and superior performance - Kw/lb as low as .137 are achievable
- High efficiency filter banks for high IAQ
- Heavy duty construction for extended service life, including heavy gauge galvaneal panels with powder coated polyester finish
- Designed for ease of installation and maintenance with 34" wide profile, electrical knock-outs and removable panels
- Corrosion resistant construction to prolong component life. Compressors, valves and controls are outside of air stream. A corrosion resistant coating is applied to coils, blower assembly, piping and frame. Stainless steel fasteners are used when appropriate
- Insulated and compartmentalized for quiet operation and to eliminate compo-

- nent exposure to corrosive chlorine. High density insulation is applied to all panels. Compressor and blowers are in separate compartments
- Vented, double-wall, copper/cupronickel heat exchange assembly to heat pool water
- Integrated DDC microprocessor system for full system control
- Blower assembly for air delivery including high efficiency blower motors with adjustable "V" belt motor pulleys
- Standard control and regulation components for optimal operation. Components include a water flow switch on pool piping, high and low pressure cutouts, overload circuit protection, a full capacity liquid receiver, refrigerant access ports on suction and discharge lines, a refrigerant line sight glass, and status lights

- Full hermetic compressor for maximum efficiency and reliability
- Enamel coated evaporator and reheat coils (enhanced tube and fin) for superior performance and long service life
- Optional auxiliary air heating coils to supplement room heat
- Optional fresh air dampers to assure proper ventilation
- Optional air or water cooled condensers to meet climate demands
- Optional factory installed auxiliary pool water heat exchanger (fed by a boiler) to maintain pool water temperature when filling the pool or when the dehumidification system is not required
- Optional factory installed spa water heat exchanger (fed by boiler or refrigerant cycle) to maintain spa water temperature

%RH	Return Air (Dry Bulb)	Dehumid. (Lbs/hr)	Reheat MBtu/h	Total Power Input (Kw)	Sens. Cooling MBtu/h	Tot. Cooling MBtu/h
50%	82°	37.0	67.1	8.8	61.1	98.1
	86°	40.3	71.8	9.2	61.0	101.3
	90°	44.3	77.4	9.7	60.5	104.8
60%	82°	47.1	78.1	9.1	54.7	101.8
	86°	52.2	84.9	9.6	53.5	105.6
	90°	56.8	91.2	10.1	52.5	109.3

External Static Pressure for Nominal Air Flow Rate = 3,300 CFM						
ESP	.4	.5	.6	.7	.8	
Blower HP	1.63	1.70	1.77	1.84	1.91	1.98
Power (Kw)	1.5	1.6	1.6	1.7	1.8	1.8

Nominal Electrical Data (60Hz 3 Phase)			208 V	460 V
Compressor	Number of Compressors		1	1
	Rated Load Amps each (RLA)		24.7	10.7
	Locked Rotor Amps each (LRA)		156	79
Blower Motor	Number of Blower Motors		1	1
	Full Load Amps each (FLA)		6.5	3.1
	Motor HP		2	2
Unit Data	Minimum Circuit Ampacity		37.4	16.5
	Maximum Time Delay Fuse (Amps)		60	25

Pool or Spa Water Pressure Drop			
Water Flow (GPM)	6	9	12
Pressure Drop (Ft H ₂ O)	2.2	4.4	7.3

Options

- Auxiliary Space Heat
 - Spa Heat
 - Water Cooled Condenser
 - Remote Air Cooled Condenser
 - Stainless Steel Condensate Pan
 - Frost Guard System
 - Vented Double Wall Heat Exchanger for Domestic Hot Water
 - Fresh Air Ventilation Package
 - Dehumidification Only
 - Remote DDC Control
 - Custom Filter Packages
- * Options may affect unit dimensions

Nominal Performance Data*

Blower Data	Air Flow Rate	3,300 CFM
	External Static Pressure	5" H ₂ O
	Blower Motor Power Input	1.6 Kw
Reheating	Dehumidification Rate	37.7 Lbs/Hr
	Net Reheat Capacity	67.9 MBtu/h
	Total Power Input	8.8 Kw
	Total Cooling Capacity (gross)	98.4 MBtu/h
Cooling (Remote Air Cooled)	Sensible Cooling Capacity	60.7 MBtu/h
	Dehumidification Rate	35.4 Lbs/Hr
	Total Cooling Capacity (net)	88.7 MBtu/h
	Sensible Cooling Capacity	53.3 MBtu/h
Hot Water Heating (Optional)	Total Power Input	9.2 Kw
	Total Heat Rejection	130.0 MBtu/h
	Remote A/C Condenser Model	FCB-12
Hot Water Heating (Optional)	Coil Heating Capacity	77.7 MBtu/h
	Hot Water Flow Rate	8 GPM
	Pressure Drop (Hot Water)	5.4 Ft H ₂ O
General Data		
Blower Data	Blower Size (nom) Dia x W	15" x 11"
	Number of Blowers	1
	Face Area	5.3
Evaporator Coil	Number of Rows	4
	Tube O.D.	3/8"
	Fins per inch	12
Reheat Coil	Face Area	6.0
	Number of Rows	3
	Tube O.D.	3/8"
	Fins per inch	14

*Assumes Entering Air = 82° F / 50% RH; Outdoor Ambient = 95° F; Condensing Temp = 115° F; Entering Hot Water from Boiler = 200° F; Dehumidification Rate (Total Cooling Sensible Cooling) / 1000.



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085

APR's CP Series dehumidification system is designed for energy efficient control of indoor pool and spa environments in commercial and residential applications. The CP Series system controls most major factors which are necessary for a healthy and comfortable pool environment, including room temperature and humidity; air ventilation and filtration; and pool water temperature.

High indoor air quality is at the heart of APR's total system approach. Advanced ventilation and filtration systems virtually eliminate unhealthy and potentially hazardous air borne corrosive elements, mold, mildew spores and certain viruses which are often found in indoor pool rooms.

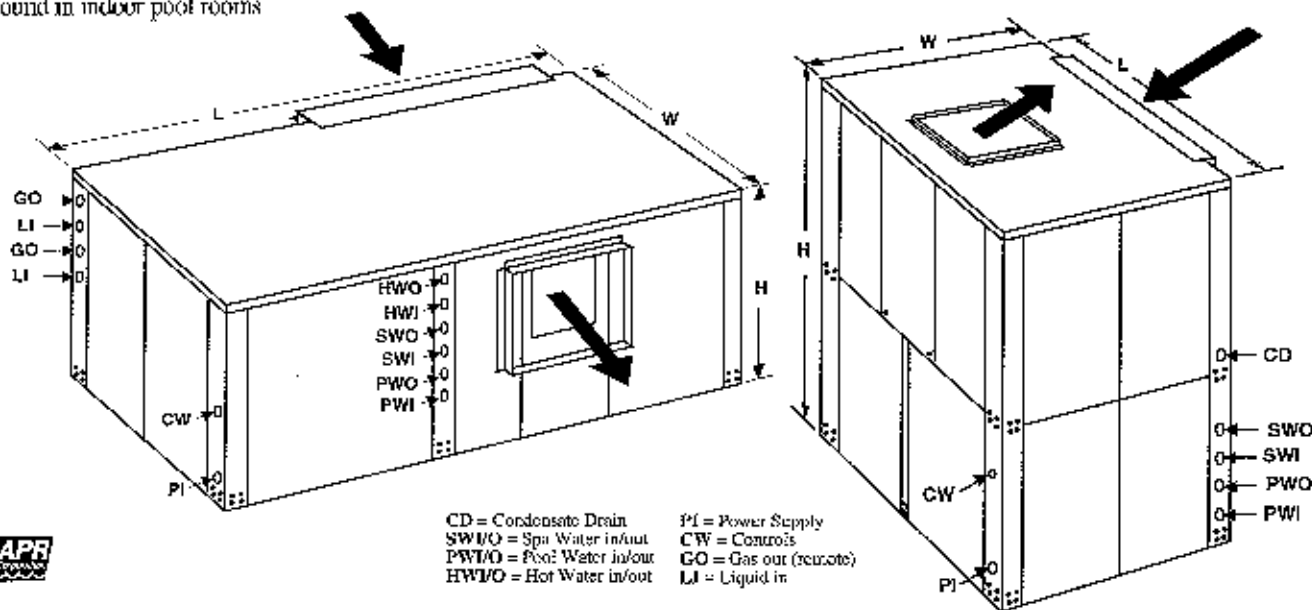
The APR CP-085 System is designed for use in applications with a total pool and spa surface area up to 1800 square feet, and is ideal for pool areas in schools, health clubs, recreational facilities and residences where pool use is moderate to high.

The CP-085 removes approximately 85 pounds of moisture per hour while maintaining a comfortable environment of 50% RH, 80° F pool water and 82° F ambient.

Every CP-085 is computer modeled, lab verified and field tested for maximum dependability, high operating efficiency and long unit life. And like all CP Series units, the CP-085 is UL listed for owner peace of mind.

Physical Characteristics

Horizontal (L x W x H)	94" x 60" x 45"
Vertical (L x W x H)	70" x 60" x 80"
Unit Shipping Weight	2900 (lbs)
R-22 Refrigerant Charge	43 (lbs)
Supply Air Duct (L x W)	25" x 25"
Return Air Duct (L x W)	39" x 48"
Evaporator Coil Face	12.0 (Sq. Ft.)
Reheat Coil Face	13.3 (Sq. Ft.)
Pool Heat-PVC in/out	1-1/2" ID
Opt. Spa Heat-CPVC in/out	1-1/2" ID
Opt. Hot Water-Cu in/out	1-3/8" OD
Remote Condenser Gas-Cu	1-3/8" OD
Remote Condenser Liquid-Cu	1-1/8" OD
Filters (L x W)	(4) 20" x 25"



Outstanding Features for Exceptional Performance

- **Components matched to load** for high energy efficiency and superior performance - Kw/lb as low as .188 are achievable
- **High efficiency filter banks** for high IAQ
- **Heavy duty construction** for extended service life, including heavy gauge galvaneal panels with powder coated polyester finish
- **Designed for ease of installation and maintenance** with removable panels
- **Corrosion resistant construction** to prolong component life. Compressors, valves and controls are outside of air stream. A corrosion resistant coating is applied to coils, blower assembly, piping and frame. Stainless steel fasteners are used when appropriate
- **Insulated and compartmentalized** for quiet operation and to eliminate component exposure to corrosive chlorine. High

- density insulation is applied to all panels. Compressor and blowers are in separate compartments
- **Vented, double-wall, copper/cupronickel heat exchange assembly** to heat pool water
- **Integrated DDC microprocessor system** for full system control
- **Standard control and regulation components** for optimal operation. Components include a water flow switch on pool piping, high and low pressure cutouts, overload circuit protection, a full capacity liquid receiver, refrigerant access ports on suction and discharge lines, a refrigerant line sight glass, and status lights
- **Enamel coated evaporator and reheat coils** (enhanced tube and fin) for superior performance and long service life
- **Dual Refrigerant Circuits** for staged operation and system redundancy

- **Scroll compressor** for maximum efficiency and reliability
- **Blower assembly** for air delivery including high efficiency blower motors with adjustable "V" belt motor pulleys and fan bearings rated for 200,000 hour life
- **Optional auxiliary air heating coils** to supplement room heat
- **Optional fresh air dampers** to assure proper ventilation
- **Optional air or water cooled condensers** to meet climate demands
- **Optional factory installed auxiliary pool water heat exchanger** (fed by a boiler) to maintain pool water temperature when filling the pool or when the dehumidification system is not required
- **Optional factory installed spa water heat exchanger** (fed by boiler or refrigerant cycle) to maintain spa water temperature

%RH	Return Air (Dry Bulb)	Dehumid Lbs/Hr	Reheat MBtu/h	Total Power Input (Kw)	Sens. Cooling MBtu/h	Tot. Cooling MBtu/h
50%	82	84.8	158.4	21.6	140.7	225.5
	86	93.1	170.3	22.7	141.2	234.3
	90	102.9	184.9	24.0	140.4	243.4
60%	82	108.4	183.9	22.1	126.0	234.4
	86	120.8	201.2	23.6	123.7	244.5
	90	132.0	217.1	25.0	121.8	253.8

External Static Pressure for Nominal Air Flow Rate = 2,800 CFM						
ESP	.6	.8	1.0	1.2	1.4	1.6
Blower HP	4.84	5.16	5.48	5.79	6.11	6.39
Power (Kw)	4.2	4.5	4.7	5.0	5.3	5.5

Nominal Electrical Data (3Phase 60Hz)		208V	400V
Compressor	Number of Compressors	2	2
	Rated Load Amps each (RLA)	31.2	23.6
Blower Motor	Locked Rotor Amps each (LRA)	247	95
	Number of Blower Motors	1	1
Unit	Full Load Amps each (FLA)	23.8	10.3
	Motor HP	7.5	7.5
Data	Minimum Circuit Ampacity	108	48
	Maximum Time Delay Fuse (Amps)	125	60

Pool/Spa Water Pressure Drop					
Water Flow (GPM)	16	24	27	28	32
Pressure Drop (Ft.H ₂ O)	3.6	5.3	7.2	9.5	12

Options

- * Auxiliary Space Heat
 - * Spa Heat
 - * Water Cooled Condenser
 - * Remote Air Cooled Condenser
 - * Air Side Economizer
 - * Weather Proofing for Outdoor Installations
 - * Refrigerant Gauges
 - * Stainless Steel Condensate Pan
 - * Frost Guard System
 - * Vented Double Wall Heat Exchanger for Domestic Hot Water
 - * Fresh Air Ventilation Package
 - * Dehumidification Only
 - * Remote DDC Control and Diagnostics
 - * Custom Filter Packages
 - * Separate Power Room with Controls
 - * Custom Engineered Product
- * Options may affect unit dimensions.

Nominal Performance Data*

Blower Data	Air Flow Rate	7,800 CFM
	External Static Pressure	1" H ₂ O
	Blower Motor Power Input	4.7 Kw
Reheating	Dehumidification Rate	84.8 Lbs/Hr
	Net Reheat Capacity	153.4 MBtu/h
	Total Power Input	21.6 Kw
Cooling (Reheat Air Cooled)	Total Cooling Capacity (at 55°F)	225.5 MBtu/h
	Sensible Cooling Capacity	140.7 MBtu/h
	Dehumidification Rate	81.3 Lbs/Hr
	Total Cooling Capacity (net)	203.1 MBtu/h
	Sensible Cooling Capacity	121.8 MBtu/h
Hot Water Heating (Optional)	Total Power Input	22.9 Kw
	Total Heat Rejection	281.3 MBtu/h
	Remote A/C Condenser Model	FCA-26
Hot Water Heating (Optional)	Coil Heating Capacity	196.4 MBtu/h
	Hot Water Flow Rate	20 GPM
	Pressure Drop (Hot Water)	4.0 Ft H ₂ O

General Data

Blower Data	Blower Size (nom) Dia. x W	18" x 18"
	Number of Blowers	1
Evaporator Coil	Face Area	12
	Number of Rows	3
	Tube O.D.	3/8"
Reheat Coil	Fins per inch	14
	Face Area	13.3
	Number of Rows	3
Reheat Coil	Tube O.D.	3/8"
	Fins per inch	14

*Assumes Entering Air - 82° F / 50% RH; Outdoor Ambient - 95° F; Condensing Temp - 113° F; Entering Hot Water from Boiler - 200° F; Dehumidification Rate = (Total Cooling - Sensible Cooling) / 1000.



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095

APR's CP Series dehumidification system is designed for energy efficient control of indoor pool and spa environments in commercial and residential applications. The CP Series system controls most major factors which are necessary for a healthy and comfortable pool environment, including room temperature and humidity; air ventilation and filtration; and pool water temperature.

High indoor air quality is at the heart of APR's total system approach. Advanced ventilation and filtration systems virtually eliminate unhealthy and potentially hazardous air borne corrosive elements, mold, mildew spores and certain viruses which are often found in indoor pool rooms.

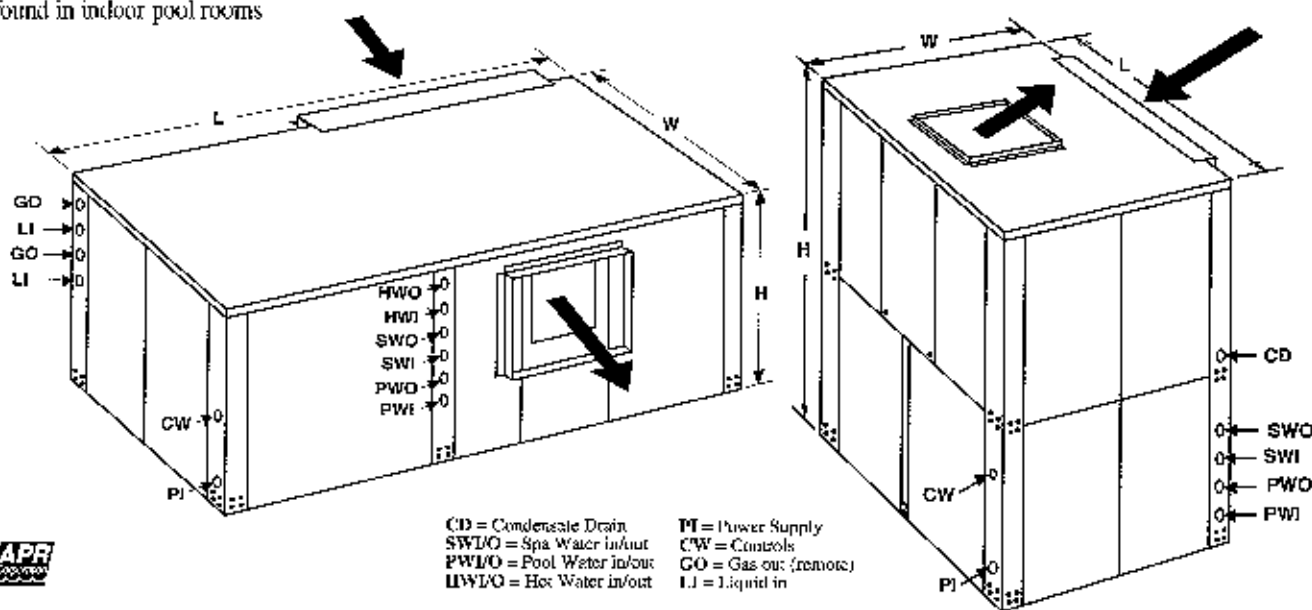
The APR CP-095 System is designed for use in applications with a total pool and spa surface area up to 2000 square feet, and is ideal for pool areas in schools, health clubs, recreational facilities and residences where pool use is moderate to high.

The CP-095 removes approximately 95 pounds of moisture per hour while maintaining a comfortable environment of 50% RH, 80° F pool water and 82° F ambient.

Every CP-095 is computer modeled, lab verified and field tested for maximum dependability, high operating efficiency and long unit life. And like all CP Series units, the CP-095 is UL listed for owner peace of mind.

Physical Characteristics

Horizontal (L x W x H)	94" x 60" x 45"
Vertical (L x W x H)	70" x 60" x 80"
Unit Shipping Weight	2900 (lbs)
R-22 Refrigerant Charge	59 (lbs)
Supply Air Duct (L x W)	25" x 25"
Return Air Duct (L x W)	39" x 48"
Evaporator Coil Face	12.0 (Sq. Ft.)
Reheat Coil Face	13.3 (Sq. Ft.)
Pool Heat-PVC in/out	1-1/2" ID
Opt. Spa Heat-CPVC in/out	1-1/2" ID
Opt. Hot Water-Cu in/out	1-3/8" OD
Remote Condenser Gas-Cu	1-3/8" OD
Remote Condenser Liquid-Cu	1-1/8" OD
Filters (L x W)	(4) 20" x 25"



Outstanding Features for Exceptional Performance

- Components matched to load for high energy efficiency and superior performance - Kw/Hr as low as 188 are achievable
- High efficiency filter banks for high IAQ
- Heavy duty construction for extended service life, including heavy gauge galvanized panels with powder coated polyester finish
- Designed for ease of installation and maintenance with removable panels
- Corrosion resistant construction to prolong component life. Compressors, valves and controls are outside of air stream. A corrosion resistant coating is applied to coils, blower assembly, piping and frame. Stainless steel fasteners are used when appropriate
- Insulated and compartmentalized for quiet operation and to eliminate component exposure to corrosive chlorine. High

- density insulation is applied to all panels. Compressor and blowers are in separate compartments
- Vented, double-wall, copper/cupronickel heat exchange assembly to heat pool water
- Integrated DDC microprocessor system for full system control
- Standard control and regulation components for optimal operation. Components include a water flow switch on pool piping, high and low pressure cutouts, overload circuit protection, a full capacity liquid receiver, refrigerant access ports on suction and discharge lines, a refrigerant line sight glass, and status lights
- Enamel coated evaporator and reheat coils (enhanced tube and fin) for superior performance and long service life
- Dual Refrigerant Circuits for staged operation and system redundancy

- Scroll compressor for maximum efficiency and reliability
- Blower assembly for air delivery including high efficiency blower motors with adjustable "V" belt motor pulleys and fan bearings rated for 200,000 hour life
- Optional auxiliary air heating coils to supplement room heat
- Optional fresh air dampers to assure proper ventilation
- Optional air or water cooled condensers to meet climate demands
- Optional factory installed auxiliary pool water heat exchanger (fed by a boiler) to maintain pool water temperature when filling the pool or when the dehumidification system is not required
- Optional factory installed spa water heat exchanger (fed by boiler or refrigerant cycle) to maintain spa water temperature

%RH	Return Air (Dry Bulb)	Dehumid. (Lbs/Hr)	Reheat (MBtu/h)	Total Power Input (Kw)	Sens. Cooling (MBtu/h)	Total Cooling (MBtu/h)
50%	82°	95.6	178.6	24.3	158.8	254.4
	86°	104.9	192.6	25.7	159.3	264.2
	90°	115.7	208.6	27.2	158.4	274.1
60%	82°	122.3	208.0	25.1	142.3	264.6
	86°	136.1	227.2	26.7	139.6	275.7
	90°	148.5	245.0	28.3	137.4	285.9

External Static Pressure for Nominal Air Flow Rate = 8,800 CFM						
ESP	1.0	1.2	1.4	1.6	1.8	2.0
Blower DP	6.64	7.01	7.37	7.73	8.08	8.44
Power (Kw)	5.8	6.1	6.4	6.7	7.0	7.3

Nominal Electrical Data (3Phase 60Hz)		208 V _{LN}	480 V _{LN}
Compressor	Number of Compressors	2	2
	Rated Load Amps each (RLA)	33	16.5
	Locked Rotor Amps each (LRA)	247	95
Blower Motor	Number of Blower Motors	1	1
	Full Load Amps each (FLA)	23.8	10.3
Circuit Data	Motor HP	7.5	7.5
	Minimum Circuit Ampacity	108	48
	Maximum Time-Delay Fuse (Amps)	125	60

Pool or Spa Water Pressure Drop					
Water Flow (GPM)	16	20	24	28	32
Pressure Drop (Ft. H ₂ O)	3.6	5.3	7.2	9.5	12

Options

- Auxiliary Space Heat
- Spa Heat
- Water Cooled Condenser
- Remote Air Cooled Condenser
- Air Side Economizer
- Weather Proofing for Outdoor Installations
- Refrigerant Gauges
- Stainless Steel Condensate Pan
- Frost Guard System
- Vented Double Wall Heat Exchanger for Domestic Hot Water
- Fresh Air Ventilation Package
- Dehumidification Only
- Remote DDC Control and Diagnostics
- Custom Filter Packages
- Separate Power Room with Controls
- Custom Engineered Product

* Option may affect unit dimensions.

Nominal Performance Data*

Blower Data	Air Flow Rate	8,800 CFM
	External Static Pressure	1" H ₂ O
	Blower Motor Power Input	6.2 Kw
Reheating	Dehumidification Rate	95.6 Lbs/Hr
	Net Reheat Capacity	178.6 MBtu/h
	Total Power Input	24.3 Kw
Cooling (Remote Air Cooled)	Total Cooling Capacity (gross)	254.4 MBtu/h
	Sensible Cooling Capacity	158.8 MBtu/h
	Dehumidification Rate	92.6 Lbs/Hr
Hot Water Heating (Optional)	Total Cooling Capacity (net)	227.0 MBtu/h
	Sensible Cooling Capacity	134.5 MBtu/h
	Total Power Input	25.5 Kw
General Data	Total Heat Rejection	314.2 MBtu/h
	Refrigerant/Condenser Model	FCA-30
	Coil Heating Capacity	206.5 MBtu/h
Hot Water Heating (Optional)	Hot Water Flow Rate	22 GPM
	Pressure Drop (Hot Water)	4.8 Ft. H ₂ O

General Data

Blower Data	Blower Size (nom.) Dia. x W.	18" x 18"
	Number of Blowers	1
Evaporator Coil	Face Area	12
	Number of Rows	4
	Tube O.D.	3/8"
Reheat Coil	Fins per inch	14
	Face Area	13.3
	Number of Rows	3
Reheat Coil	Tube O.D.	3/8"
	Fins per inch	14

* Assumes Entering Air = 82° F / 50% RH; Outdoor Ambient = 95° F; Condensing Temp = 113° F; Entering Hot Water from Boiler = 200° F; Dehumidification Rate = (Total Cooling - Sensible Cooling) / 1000.



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120

APR's CP Series dehumidification system is designed for energy efficient control of indoor pool and spa environments in commercial and residential applications. The CP Series system controls most major factors which are necessary for a healthy and comfortable pool environment, including room temperature and humidity; air ventilation and filtration; and pool water temperature.

High indoor air quality is at the heart of APR's *total system approach*. Advanced ventilation and filtration systems virtually eliminate unhealthy and potentially hazardous air borne corrosive elements, mold, mildew spores and certain viruses which are often found in indoor pool rooms

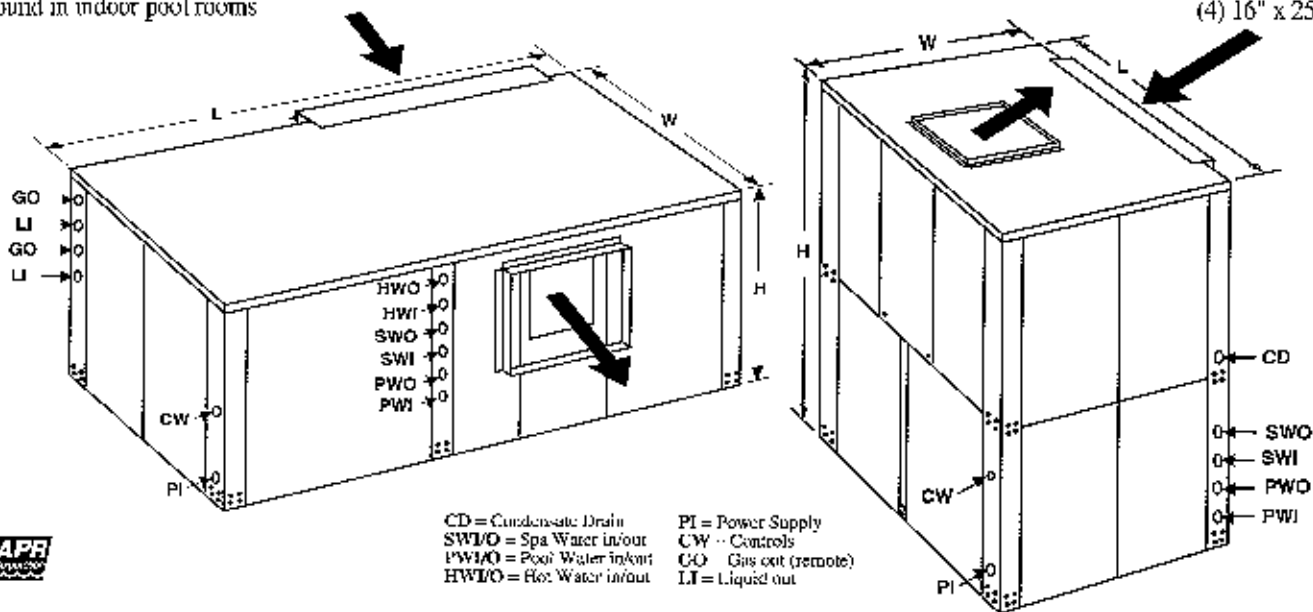
The APR CP-120 System is designed for use in applications with a total pool and spa surface area up to 2500 square feet, and is ideal for pool areas in schools, health clubs, recreational facilities and residences where pool use is moderate to high.

The CP-120 removes approximately 120 pounds of moisture per hour while maintaining a comfortable environment of 50% RH, 80° F pool water and 82° F ambient.

Every CP-120 is computer modeled, lab verified and field tested for maximum dependability, high operating efficiency and long unit life. And like all CP Series units, the CP-120 is UL listed for owner peace of mind.

Physical Characteristics

Horizontal (L x W x H)	118" x 66" x 49"
Vertical (L x W x H)	84" x 66" x 84"
Unit Shipping Weight	3800 (lbs)
R-22 Refrigerant Charge	67 (lbs)
Supply Air Duct (L x W)	30" x 30"
Return Air Duct (L x W)	43" x 62"
Evaporator Coil Face	17.2 (Sq. Ft.)
Reheat Coil Face	18.9 (Sq. Ft.)
Pool Heat-PVC in/out	2" ID
Opt. Spa Heat-CPVC in/out	1-1/2" ID
Opt. Hot Water-Cu in/out	1-5/8" OD
Remote Condenser Gas-Co	1-3/8" OD
Remote Condenser Liquid-Cu	1-1/8" OD
Filters (L x W)	(4) 16" x 20" (4) 16" x 25"



CD = Condensate Drain
 SWI/O = Spa Water in/out
 PWI/O = Pool Water in/out
 HWO = Hot Water in/out
 PI = Power Supply
 CW = Controls
 GO = Gas out (remote)
 LI = Liquid out



CP 120 APR CP Series Dehumidification Equipment

Outstanding Features for Exceptional Performance

- Components matched to load for high energy efficiency and superior performance - Kw/lb as low as .188 are achievable
- High efficiency filter banks for high IAQ
- Heavy duty construction for extended service life, including heavy gauge galvalume panels with powder coated polyester finish
- Designed for ease of installation and maintenance with removable panels
- Corrosion resistant construction to prolong component life. Compressors, valves and controls are outside of air stream. A corrosion resistant coating is applied to coils, blower assembly, piping and frame. Stainless steel fasteners are used when appropriate
- Insulated and compartmentalized for quiet operation and to eliminate component exposure to corrosive chlorine. High

- density insulation is applied to all panels. Compressor and blowers are in separate compartments
- Vented, double-wall, copper/cupronickel heat exchange assembly to heat pool water
- Integrated DDC microprocessor system for full system control
- Standard control and regulation components for optimal operation. Components include a water flow switch on pool piping, high and low pressure cutouts, overload circuit protection, a full capacity liquid receiver, refrigerant access ports on suction and discharge lines, a refrigerant line sight glass, and status lights
- Enamel coated evaporator and reheat coils (enhanced tube and fin) for superior performance and long service life
- Dual Refrigerant Circuits for staged operation and system redundancy

- Scroll compressor for maximum efficiency and reliability
- Blower assembly for air delivery including high efficiency blower motors with adjustable "V" belt motor pulleys and fan bearings rated for 200,000 hour life
- Optional auxiliary air heating coils to supplement room heat
- Optional fresh air dampers to assure proper ventilation
- Optional air or water cooled condensers to meet climate demands
- Optional factory installed auxiliary pool water heat exchanger (fed by a boiler) to maintain pool water temperature when filling the pool or when the dehumidification system is not required
- Optional factory installed spa water heat exchanger (fed by boiler or refrigerant cycle)

% RH	Return Air (Dry Bulb)	Dehumid. (Lbs/Hr)	Reheat (MBtu/h)	Total Power Input (Kw)	Sens. Cooling (MBtu/h)	Latent Cooling (MBtu/h)
50%	82°	121.1	235.0	35.4	204.2	325.2
	86°	132.6	253.6	35.5	204.9	337.5
	90°	146.7	274.8	37.5	204.0	350.7
	82°	155.2	273.5	34.7	182.5	337.7
	86°	173.1	298.9	36.9	179.3	352.4
	90°	189.4	322.5	39.0	176.8	366.3

External Static Pressure for Nominal Air Flow Rate = 11,500 CFM						
ESP	7.78	8.22	8.71	9.29	9.87	10.45
Blower HP						
Power (Kw)	6.7	7.1	7.5	8.0	8.5	9.0

Nominal Electrical Data (3Phase 60Hz)			208 V ₃	460 V ₃
Compressor	Number of Compressors		2	2
	Rated Break Amps each (RLA)		46.8	23.4
	Locked Rotor Amps each (LRA)		376	142
Blower Motor	Number of Blower Motors		1	1
	Full Load Amps each (FLA)		28	12.8
	Motor HP		10	10
Unit Data	Minimum Circuit Ampacity		144	66
	Maximum Time Delay (Amps)		175	80

Pool or Spa Water Pressure Drop					
Water Flow (GPM)	20	30	40	50	60
Pressure Drop (ft H ₂ O)	2.6	5.2	8.5	12.5	17.2

Options

- * Auxiliary Space Heat
 - * Spa Heat
 - * Water Cooled Condenser
 - * Remote Air Cooled Condenser
 - * Air Side Economizer
 - * Weather Proofing for Outdoor Installations
 - * Refrigerant Gauges
 - * Stainless Steel Condensate Pan
 - * Frost Guard System
 - * Vented Double Wall Heat Exchanger for Domestic Hot Water
 - * Fresh Air Ventilation Package
 - * Dehumidification Only
 - * Remote DDC Control and Diagnostics
 - * Custom Filter Packages
 - * Separate Power Return with Controls
 - * Custom Engineered Product
- * Options may affect unit dimensions

Nominal Performance Data*

Blower Data	Air Flow Rate	11,500 CFM
	External Static Pressure	1" H ₂ O
	Blower Motor Power Input	7.5 Kw
	Dehumidification Rate	121.1 Lbs/Hr
Reheating	Net Reheat Capacity	235.0 MBtu/h
	Total Power Input	33.4 Kw
	Total Cooling Capacity (gross)	325.2 MBtu/h
Cooling (Remote Air Cooled)	Sensible Cooling Capacity	204.2 MBtu/h
	Dehumidification Rate	117.7 Lbs/Hr
	Total Cooling Capacity (net)	293.8 MBtu/h
	Sensible Cooling Capacity	176.0 MBtu/h
	Total Power Input	34.9 Kw
	Total Heat Rejection	413.0 MBtu/h
Hot Water Heating (Optional)	Ruffac A/C Condenser Model	FCA-35
	Coil Heating Capacity	282.7 MBtu/h
	Hot Water Flow Rate	29 GPM
	Pressure Drop (Hot Water)	4.4 Ft H ₂ O

General Data

Blower Data	Blower Size (nom) Dia x W	20" x 20"
	Number of Blowers	1
Evaporator Coil	Face Area	17.2
	Number of Rows	3
	Tube O.D.	3/8"
	Fins per inch	14
Reheat Coil	Face Area	18.9
	Number of Rows	3
	Tube O.D.	3/8"
	Fins per inch	14

* Assumes Entering Air = 82° F / 50% RH; Outdoor Ambient = 95° F; Condensing Temp = 113° F; Entering Hot Water from Boiler = 200° F; Dehumidification Rate = (Total Cooling Sensible Cooling) / 1000.



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140

APR's CP Series dehumidification system is designed for energy efficient control of indoor pool and spa environments in commercial and residential applications. The CP Series system controls most major factors which are necessary for a healthy and comfortable pool environment, including room temperature and humidity; air ventilation and filtration; and pool water temperature.

High indoor air quality is at the heart of APR's total system approach. Advanced ventilation and filtration systems virtually eliminate unhealthy and potentially hazardous air borne corrosive elements, mold, mildew spores and certain viruses which are often found in indoor pool rooms.

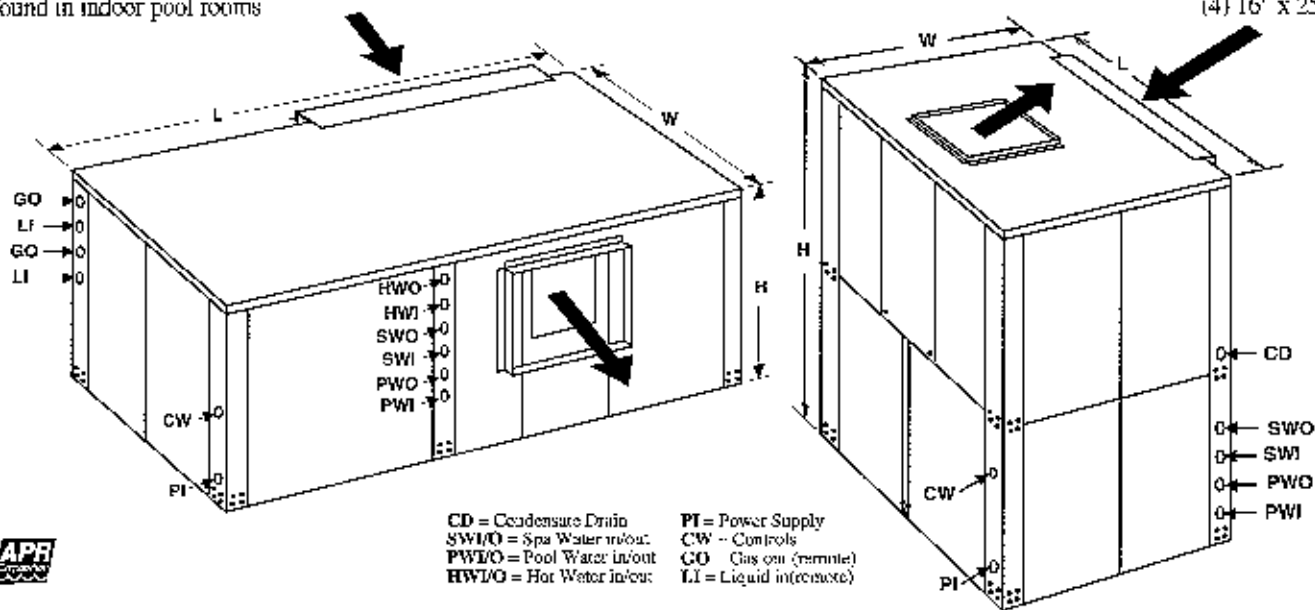
The APR CP-140 System is designed for use in applications with a total pool and spa surface area up to 2750 square feet, and is ideal for pool areas in schools, health clubs, recreational facilities and residences where pool use is moderate to high.

The CP-140 removes approximately 140 pounds of moisture per hour while maintaining a comfortable environment of 50% RH, 80° F pool water and 82° F ambient.

Every CP-140 is computer modeled, lab verified and field tested for maximum dependability, high operating efficiency and long unit life. And like all CP Series units, the CP-140 is UL listed for owner peace of mind.

Physical Characteristics

Horizontal (L x W x H)	118" x 66" x 49"
Vertical (L x W x H)	84" x 66" x 84"
Unit Shipping Weight	3800 (lbs)
R-22 Refrigerant Charge	82 (lbs)
Supply Air Duct (L x W)	30" x 30"
Return Air Duct (L x W)	43" x 62"
Evaporator Coil Face	17.2 (Sq. Ft.)
Reheat Coil Face	18.9 (Sq. Ft.)
Pool Heat-PVC in/out	2" ID
Opt. Spa Heat-CPVC in/out	1-1/2" ID
Opt. Hot Water-Cu in/out	1-5/8" OD
Remote Condenser Gas-Cu	1-3/8" OD
Remote Condenser Liquid-Cu	1-1/8" OD
Filters (L x W)	(4) 16" x 20" (4) 16" x 25"



CD = Condensate Drain
 SWI/O = Spa Water in/out
 PWO = Pool Water in/out
 RWO = Hot Water in/out
 PI = Power Supply
 CW = Controls
 GO = Gas out (remote)
 LI = Liquid in/remote



APR CP Series
 Dehumidification Equipment
CP 140

Outstanding Features for Exceptional Performance

- **Components matched to load** for high energy efficiency and superior performance - Kw/lb as low as .188 are achievable
- **High efficiency filter banks** for high IAQ
- **Heavy duty construction** for extended service life, including heavy gauge galvanneal panels with powder coated polyester finish
- **Designed for ease of installation and maintenance** with removable panels
- **Corrosion resistant construction** to prolong component life. Compressors, valves and controls are outside of air stream. A corrosion resistant coating is applied to coils, blower assembly, piping and frame. Stainless steel fasteners are used when appropriate
- **Insulated and compartmentalized** for quiet operation and to eliminate component exposure to corrosive chlorine. High

- density insulation is applied to all panels. Compressor and blowers are in separate compartments
- **Vented, double-wall, copper/cupronickel heat exchange assembly** to heat pool water
- **Integrated DDC microprocessor system** for full system control
- **Standard control and regulation components** for optimal operation. Components include a water flow switch on pool piping, high and low pressure cutouts, overload circuit protection, a full capacity liquid receiver, refrigerant access ports on suction and discharge lines, a refrigerant line sight glass, and status lights
- **Enamel coated evaporator and reheat coils** (enhanced tube and fin) for superior performance and long service life
- **Dual Refrigerant Circuits** for staged operation and system redundancy

- **Scroll compressor** for maximum efficiency and reliability
- **Blower assembly** for air delivery including high efficiency blower motors with adjustable "V" belt motor pulleys and fan bearings rated for 200,000 hour life
- **Optional auxiliary air heating coils** to supplement room heat
- **Optional fresh air dampers** to assure proper ventilation
- **Optional air or water cooled condensers** to meet climate demands
- **Optional factory installed auxiliary pool water heat exchanger** (fed by a boiler) to maintain pool water temperature when filling the pool or when the dehumidification system is not required
- **Optional factory installed spa water heat exchanger** (fed by boiler or refrigerant cycle) to maintain spa water temperature

% RH	Return Air (Dry Bulb)	Dehumid. (Lbs/Hr)	Reheat (MBtu/h)	Total Power Input (Kw)	Sens. Cooling (MBtu/h)	Total Cooling (MBtu/h)
50%	82°	137.8	266.4	37.7	231.8	369.6
	86°	151.1	286.5	39.7	232.6	383.8
	90°	167.2	309.4	41.7	231.6	398.8
60%	82°	177.0	309.6	38.9	207.6	384.6
	86°	197.3	337.3	41.0	203.9	401.2
	90°	215.8	363.4	43.1	201.0	416.8

External Static Pressure for Nominal Air Flow Rate = 13,000 CFM						
ESP	.6	.8	1.0	1.2	1.4	1.6
Blower HP	10.77	11.27	11.77	12.27	12.92	13.58
Power (Kw)	9.2	9.5	10.0	10.5	11.0	11.6

Nominal Electrical Data (3-phase 60Hz)			208V	460V
Compressor	Number of Compressors		2	2
	Rated Load Amps each (RLA)		49.2	24.6
	Locking Relay Amps each (LRA)		376	142
Blower Motor	Number of Blower Motors		1	1
	Full Load Amps each (FLA)		44.8	19.5
	Motor HP		15	15
Units	Minimum Circuit Ampacity		161	75
	Maximum Time Delay Fuse (Amps)		200	100

Pool or Spa Water Pressure Drop					
Water Flow (GPM)	30	40	50	60	
Pressure Drop (ft. H ₂ O)	2.6	5.2	8.5	12.5	17.2

Options

- Auxiliary Space Heat
- Spa Heat
- Water Cooled Condenser
- Remote Air Cooled Condenser
- Air Side Economizer
- Weather Proofing for Outdoor Installations
- Refrigerant Gauges
- Stainless Steel Condensate Pan
- Frost Guard System
- Vented Double Wall Heat Exchanger for Domestic Hot Water
- Fresh Air Ventilation Package
- Dehumidification Only
- Remote DDC Control and Diagnostics
- Custom Filter Packages
- Separate Power Return with Controls
- Custom Engineered Product

* Options may affect unit dimensions.

Nominal Performance Data*

Blower Data	Air Flow Rate	13,000 CFM
	External Static Pressure	1" IL0
	Blower Motor Power Input	10.0 Kw
Reheating	Dehumidification Rate	137.8 Lbs/Hr
	Net Reheat Capacity	266.4 MBtu/h
	Total Power Input	37.7 Kw
Cooling (Remote Air Cooled)	Total Cooling Capacity (gross)	369.6 MBtu/h
	Sensible Cooling Capacity	231.8 MBtu/h
	Dehumidification Rate	133.5 Lbs/Hr
Hot Water Heating (Optional)	Total Cooling Capacity (net)	327.7 MBtu/h
	Sensible Cooling Capacity	194.2 MBtu/h
	Total Power Input	39.4 Kw
Evaporator Coil	Total Heat Rejection	462.1 MBtu/h
	Remote A/C Condenser Model	FCA-41
	Coil Heating Capacity	294.7 MBtu/h
Reheat Coil	Hot Water Flow Rate	31 GPM
	Pressure Drop (Hot Water)	5 Ft IL0
	General Data	
Blower Data	Blower Size (inches) Dia. x W	20" x 20"
	Number of Blowers	1
Evaporator Coil	Face Area	17.2
	Number of Rows	4
	Tube O.D.	3/8"
Reheat Coil	Fins per Inch	14
	Face Area	18.9
	Number of Rows	3
	Tube O.D.	3/8"
	Fins per inch	14

* Assumes Entering Air = 82° F / 50% RH, Outdoor Ambient = 95° F, Condensing Temp = 115° F, Entering Hot Water from Boiler = 200° F, Dehumidification Rate = (Total Cooling - Sensible Cooling) / 9.00.



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