

# Uniflair AM

## SDAC – SUAC



### Range

Cooling capacity: 5 ÷ 20 kW

### Refrigerant R-410A

### Available Versions:

- Downflow (SDAC)
- Upflow (SUAC) with bottom, front and rear suction

### Standard Features

- Advanced microprocessor control system is included local or remote user terminal.
- The units are equipped with forward-curved fans and directly-coupled asynchronous motor.
- The structure of the unit is characterized by a self-supporting frame in galvanized steel with panels. The external panels are coated with RAL9003 epoxy-polyester paint\* and internally lined with heat and sound-proofing insulation.
- The cooling coil is designed for an elevated SHR and reduced pressure drops in the air section. The coil is made from copper tubes mechanically expanded on aluminum fins, complete with a hydrophilic treatment.
- Uniflair AM units are in conformity with the following directives: 2006/42/EC, 2004/108/EC, 2006/95/EC, 97/23/EC, 842/2006/EC F-GAS regulation.
- High-efficiency, EU4-pleated air filters are housed in a metal frame and equipped with a dirty filter differential pressure switch and low airflow differential pressure switch.

- Total front access is available for unit maintenance.
- Electrical panel is situated in a compartment separated from the air flow and complies with the 2006/95/EC directive and related standards.
- Microprocessor control system includes:
  - Local user terminal with external accessibility
  - Integrated LAN card for local network connection of a group of CRACs
  - Rotation and active stand-by management
  - Free contact for general alarm and two for addressable alarms
  - Remote on/off switch
  - Ability to interface with Modbus protocol directly on RS485 serial card
  - Ability to interface with main external communication protocols: Bacnet, Lonworks, Trend, Metasys, TCP/IP, SNMP, and StruxureWare™ platform

\*RAL5013 may be used during transition period.

TECHNICAL DATA									
SDAC –SUAC MODEL	0151B	0251B	0151A	0251A	0331A	0351A	0501A	0601A	
Fan type	Forward-curved centrifugal motor fan								
Power supply	V/ph/Hz	230/1/50Hz			400/3/50Hz				
Fans	Nr.	1	1	1	1	2	2	2	2
Airflow	m3/h	1600	1750	1600	1750	3000	3300	4500	4500
N° of compressors		1	1	1	1	1	1	1	1
Refrigerating Circuits		1	1	1	1	1	1	1	1
Gross Total Cooling Capacity(1) (2)	kW	6,6	8,0	6,4	7,9	10,0	13,3	16,9	18,8
Gross Sensible Cooling Capacity(1) (2)	kW	5,3	6,1	5,2	6,0	9,1	10,6	14,4	15,4
DIMENSIONS									
Height	mm	1740	1740	1740	1740	1740	1740	1740	1740
Length	mm	550	550	550	550	850	850	1200	1200
Depth	mm	450	450	450	450	450	450	450	450

1. Gross Cooling capacities; fans must be deduced to obtain net cooling data.

2. Data refers to nominal conditions : room at 24°C-50% RH, 45°C condensing temperature, and ESP = 20Pa.

### Construction Options

- Immersed electrode humidifier (D/U versions)
- Low surface temperature electrical heaters with extended fans, complete with safety thermostat and manual resetting (T/H versions)
- Hot gas and hot water reheating
- Electronic expansion valve is controlled by the microprocessor and a dedicated software that increases the precision of the cooling and the energy efficiency of the cooling cycle

### Accessories

The units can be supplied with the following external accessories:

- Remote, semi-graphic user terminal
- RS485 serial adaptor to communicate with external BMS
- LON FTT10 serial adaptor to communicate with external BMS managed with LON protocol
- TCP/IP serial adaptor to communicate with external BMS managed with SNMP protocol
- AFPS (Automatic Floor Pressurization System) that permits to adapt its availability as a kit with installation instructions
- Motorized damper
- Condensate drain pump
- Suction from the top or front discharge plenums
- Adjustable floor stands

# Uniflair AM

## SDAV – SUAV



### Range

Cooling capacity: 5 ÷ 20 kW

### Refrigerant R-410A

### EC Fans

### Available Versions:

- Downflow (SDAV)
- Upflow (SUAV) with bottom, front, and rear suction

### Standard Features

- Advanced microprocessor control system is included local or remote user terminal.
- The units are equipped with EC fans for efficiency maximization.
- The structure of the unit is characterized by a self-supporting frame in galvanized steel with panels. The external panels are coated with RAL9003 epoxy-polyester paint\* and internally lined with heat and sound-proofing insulation.
- The cooling coil is designed for an elevated SHR and reduced pressure drops in the air section. The coil is made from copper tubes mechanically expanded on aluminum fins, complete with a hydrophilic treatment.
- Uniflair AM units are in conformity with the following directives: 2006/42/EC, 2004/108/EC, 2006/95/EC, 97/23/EC, 842/2006/EC F-GAS regulation.
- High-efficiency, EU4-pleated air filters are housed in a metal frame and equipped with a dirty filter differential pressure switch and low airflow differential pressure switch.

- Total front access is available for unit maintenance.
- Electrical panel is situated in a compartment separate from the air flow and in compliance with the 2006/95/EC directive and related standards.
- Microprocessor control system includes:
  - Local user terminal with external accessibility
  - Integrated LAN card for local network connection of a group of CRACs
  - Rotation and active stand-by management
  - Free contact for general alarm and two for addressable alarms
  - Remote on/off switch
  - Ability to interface with Modbus protocol directly on RS485 serial card
  - Ability to interface with main external communication protocols: Bacnet, Lonworks, Trend, Metasys, TCP/IP, SNMP, and StruxureWare™ platform

\*RAL5013 may be used during transition period.

TECHNICAL DATA									
SDAV –SUAV MODEL	0151B	0251B	0151A	0251A	0331A	0351A	0501A	0601A	
Fan type	EC Backward-curved centrifugal motor fan								
Power supply	V/ph/Hz	230/1/50Hz			400/3/50Hz				
Fans	Nr.	1	1	1	1	2	2	2	2
Airflow	m3/h	1600	1750	1600	1750	3000	3300	4500	4500
N° of compressors		1	1	1	1	1	1	1	1
Refrigerating Circuits		1	1	1	1	1	1	1	1
Gross Total Cooling Capacity(1) (2)	kW	6,4	8,0	6,4	7,9	10,0	13,3	16,9	18,8
Gross Sensible Cooling Capacity(1) (2)	kW	5,2	6,1	5,2	6,0	9,1	10,6	14,4	15,4
DIMENSIONS									
Height	mm	1740	1740	1740	1740	1740	1740	1740	1740
Length	mm	550	550	550	550	850	850	1200	1200
Depth	mm	450	450	450	450	450	450	450	450

1. Gross Cooling capacities; fans must be deduced to obtain net cooling data.

2. Data refers to nominal conditions : room at 24°C- 50% RH, 45°C condensing temperature, and ESP = 20Pa.

### Construction Options

- Immersed electrode humidifier (D/U versions)
- Low surface temperature electrical heaters with extended fans, complete with safety thermostat and manual resetting (T/H versions)
- Hot gas and hot water reheating
- Electronic expansion valve is controlled by the microprocessor and a dedicated software that increases the precision of the cooling and the energy efficiency of the cooling cycle

### Accessories

The units can be supplied with the following external accessories:

- Remote, semi-graphic user terminal
- RS485 serial adaptor to communicate with external BMS
- LON FTT10 serial adaptor to communicate with external BMS managed with LON protocol
- TCP/IP serial adaptor to communicate with external BMS managed with SNMP protocol
- AFPS (Automatic Floor Pressurization System) that permits to adapt its availability as a kit with installation instructions
- Motorized damper
- Condensate drain pump
- Suction from the top or front discharge plenums
- Adjustable floor stands

[Direct Expansion water-cooled units with asynchronous motor fans]

# Uniflair AM

## SDWC – SUWC



### Range

Cooling capacity: 5 ÷ 20 kW

### Refrigerant R-410A

### Available Versions:

- Downflow (SDWC)
- Upflow (SUWC) with bottom, front, and rear suction

### Standard Features

- Advanced microprocessor control system is included with local or remote user terminal.
- The units are equipped with forward-curved fans and directly-coupled asynchronous motor.
- The structure of the unit is characterized by a self-supporting frame in galvanized steel with panels. The external panels are coated with RAL9003 epoxy-polyester paint\* and internally lined with heat and sound-proofing insulation.
- The cooling coil is designed for an elevated SHR and reduced pressure drops in the air section. The coil is made from copper tubes mechanically expanded on aluminum fins, complete with a hydrophilic treatment.
- Uniflair AM units are in conformity with the following directives: 2006/42/EC, 2004/108/EC, 2006/95/EC, 97/23/EC, 842/2006/EC F-GAS regulation.
- High-efficiency, EU4-pleated air filters are housed in a metal frame and equipped with a dirty filter differential pressure switch and low airflow differential pressure switch.

- Total front access is available for unit maintenance.
- The electrical panel is situated in a compartment separated from the air flow and complies with the 2006/95/EC directive and related standards.
- Microprocessor control system includes:
  - Local user terminal with external accessibility
  - Integrated LAN card for local network connection of a group of CRACs
  - Rotation and active stand-by management
  - Free contact for general and two for addressable alarms
  - Remote on/off switch
  - Ability to interface with Modbus protocol directly on RS485 serial card
  - Ability to interface with main external communication protocols: Bacnet, Lonworks, Trend, Metasys, TCP/IP, SNMP, and StruxureWare™ platform

\*RAL5013 may be used during transition period.

TECHNICAL DATA									
SDWC –SUWC MODEL		0151B	0251B	0151A	0251A	0331A	0351A	0501A	0601A
Fan type	Forward-curved centrifugal motor fan								
Power supply	V/ph/Hz	230/1/50Hz			400/3/50Hz				
Fans	Nr.	1	1	1	1	2	2	2	2
Airflow	m3/h	1600	1750	1600	1750	3000	3300	4500	4500
N° of compressors		1	1	1	1	1	1	1	1
Refrigerating Circuits		1	1	1	1	1	1	1	1
Gross Total Cooling Capacity(1) (2)	kW	6,9	8,3	6,9	8,3	9,8	13,6	17,7	19,4
Gross Sensible Cooling Capacity(1) (2)	kW	5,4	6,2	5,4	6,2	8,7	10,6	14,7	15,6
DIMENSIONS									
Height	mm	1740	1740	1740	1740	1740	1740	1740	1740
Length	mm	550	550	550	550	850	850	1200	1200
Depth	mm	450	450	450	450	450	450	450	450

1. Gross Cooling capacities; fans must be deduced to obtain net cooling data.

2. Data refers to nominal conditions : room at 24°C° -50% RH, water temperatures 30-35°C, And ESP = 20Pa.

### Construction Options

- Immersed electrode humidifier (D/U versions)
- Low surface temperature electrical heaters with extended fans, complete with safety thermostat and manual resetting (T/H versions)
- Hot gas and hot water reheating
- Electronic expansion valve is controlled by the microprocessor and a dedicated software that increase the precision of the cooling and the energy efficiency of the cooling cycle

### Accessories

The units can be supplied with the following external accessories:

- Remote, semi-graphic user terminal
- RS485 serial adaptor to communicate with external BMS
- LON FTT10 serial adaptor to communicate with external BMS managed with LON protocol
- TCP/IP serial adaptor to communicate with external BMS managed with SNMP protocol
- Motorized damper
- Condensate drain pump
- Suction from the top or front discharge plenums
- Adjustable floor stands

# Uniflair AM

## SDWV – SUWV



### Range

Cooling capacity: 5 ÷ 20 kW

Refrigerant R-410A

EC Fans

Available Versions:

- Downflow (SDWV)
- Upflow (SUWV) with bottom, front, and rear suction

### Standard Features

- Advanced microprocessor control system is included with local or remote user terminal.
- The units are equipped with EC Fans for efficiency maximization.
- The structure of the unit is characterized by a self-supporting frame in galvanized steel with panels. The external panels are coated with RAL9003 epoxy-polyester paint\* and internally lined with heat and sound-proofing insulation.
- The cooling coil is designed for an elevated SHR and reduced pressure drops in the air section. The coil is made from copper tubes mechanically expanded on aluminum fins, complete with a hydrophilic treatment.
- Uniflair AM units are in conformity with the following directives: 2006/42/EC, 2004/108/EC, 2006/95/EC, 97/23/EC, 842/2006/EC F-GAS regulation
- High-efficiency, EU4-pleated air filters are housed in a metal frame and equipped with a dirty filter differential pressure switch and low airflow differential pressure switch

- Total front access is available for unit maintenance
- The electrical panel is situated in a compartment separated from the air flow and complies with the 2006/95/EC directive and related standards.
- Microprocessor control system includes:
  - Local user terminal with external accessibility
  - Integrated LAN card for local network connection of a group of CRACs
  - Rotation and active stand-by management
  - Free contact for general and two for addressable alarms
  - Remote on/off switch
  - Ability to interface with Modbus protocol directly on RS485 serial card
  - Ability to interface with main external communication protocols: Bacnet, Lonworks, Trend, Metasys, TCP/IP, SNMP, and StruxureWare™ platform

\*RAL5013 may be used during transition period.

TECHNICAL DATA									
SDWV –SUWV MODEL		0151B	0251B	0151A	0251A	0331A	0351A	0501A	0601A
Fan type	EC Backward-curved centrifugal motor fan								
Power supply	V/ph/Hz	230/1/50Hz			400/3/50Hz				
Fans	Nr.	1	1	1	1	2	2	2	2
Airflow	m3/h	1600	1750	1600	1750	3000	3300	4500	4500
N° of compressors		1	1	1	1	1	1	1	1
Refrigerating Circuits		1	1	1	1	1	1	1	1
Gross Total Cooling Capacity(1) (2)	kW	6,9	8,4	6,9	8,3	9,8	13,6	17,7	19,4
Gross Sensible Cooling Capacity(1) (2)	kW	5,4	6,2	5,4	6,2	8,7	10,6	14,7	15,6
DIMENSIONS									
Height	mm	1740	1740	1740	1740	1740	1740	1740	1740
Length	mm	550	550	550	550	850	850	1200	1200
Depth	mm	450	450	450	450	450	450	450	450

1. Gross Cooling capacities; fans must be deduced to obtain net cooling data.

2. Data refers to nominal conditions: room at 24°C° -50% RH, water temperatures 30-35°C, and ESP = 20Pa.

### Construction Options

- Immersed electrode humidifier (D/U versions)
- Low surface temperature electrical heaters with extended fans, complete with safety thermostat and manual resetting (T/H versions)
- Hot gas and hot water reheating
- Electronic expansion valve is controlled by the microprocessor and a dedicated software that increases the precision of the cooling and the energy efficiency of the cooling cycle

### Accessories

The units can be supplied with the following external accessories:

- Remote, semi-graphic user terminal
- RS485 serial adaptor to communicate with external BMS
- LON FTT10 serial adaptor to communicate with external BMS managed with LON protocol
- TCP/IP serial adaptor to communicate with external BMS managed with SNMP protocol
- Motorized damper
- Condensate drain pump
- Suction from the top or front discharge plenums
- Adjustable floor stands

# Uniflair AM

SDCC – SUCC



### Standard Features

- Advanced microprocessor control system is available with local or remote user terminal.
- The units are equipped with forward-curved fans With directly-coupled asynchronuos motor.
- The structure of the unit is characterized by a self-supporting frame in galvanized steel with panels. The external panels are coated with RAL9003 epoxy-polyester paint\* and internally lined with heat and sound-proofing insulation.
- The unit can be selected with a two-way or three-way valve and an actuator integrated with the microprocessor
- The cooling coil is designed for an elevated SHR and reduced pressure drops in the air section. The coil is made from copper tubes mechanically expanded on aluminum fins, complete with a hydrophilic treatment.
- High-efficiency, EU4-pleated air filters are housed in a metal frame and equipped with a dirty filter differential pressure switch and low airflow differential pressure switch.

### Range

Cooling capacity: 5 ÷ 20 kW

### Refrigerant Chilled Water

#### Available Versions:

- Downflow (SDCC)
- Upflow (SUCC) with bottom, front, and rear suction

- Total front access is available for unit maintenance.
- The electrical panel is situated in a compartment separated from the air flow and complies with the 2006/95/EC directive and related standards
- Microprocessor control system includes:
  - Local user terminal with external accessibility
  - Integrated LAN card for local network connection of a group of CRACs
  - Rotation and active stand-by management
  - Free contact for general and two for addressable alarms
  - Remote on/off switch
  - Ability to interface with Modbus protocol directly on RS485 serial card
  - Ability to interface with main external communication protocols: Bacnet, Lonworks, Trend, Metasys, TCP/IP, SNMP, and StruxureWare™ platform

\*RAL5013 may be used during transition period.

TECHNICAL DATA						
SDCC–SUCC MODEL		0200A(3)	0250A(3)	0300A(3)	0400A(3)	0600A(3)
Fan type	Forward-curved centrifugal motor fan					
Power supply	V/ph/Hz	400/3/50Hz				
Fans	Nr.	1	1	1	2	2
Airflow	m3/h	1600	2300	2300	3350	4500
Gross Total Cooling Capacity(1) (2)	kW	7,2	10,0	11,3	14,1	20,6
Gross Sensible Cooling Capacity(1) (2)	kW	6,4	8,9	9,9	12,9	18,2
DIMENSIONS						
Height	mm	1740	1740	1740	1740	1740
Length	mm	550	850	850	850	1200
Depth	mm	450	450	450	450	450
SDCC–SUCC MODEL		0200B	0250B	0300B	0400B	0600B
Fan type	Forward-curved centrifugal motor fan					
Power supply	V/ph/Hz	230/1/50Hz				
Fans		1	1	1	2	2
Airflow	m3/h	1600	2300	2300	3350	4500
Gross Total Cooling Capacity(1) (2)	kW	7,2	10,0	11,3	14,1	20,6
Gross Sensible Cooling Capacity(1) (2)	kW	6,4	8,9	9,9	12,9	18,2
DIMENSIONS						
Height	mm	1740	1740	1740	1740	1740
Length	mm	550	850	850	850	1200
Depth	mm	450	450	450	450	450

1. Data refers to nominal conditions: room at 24°C-50% RH,water temperature 7/12°C, and glycol 0%, and ESP ± 20Pa.
2. Gross Cooling capacities; fans must be deduced to obtain net cooling data.
3. Equipped with standard electrical heaters.

### Construction Options

- Double power supply with automatic, integrated management on the active line
- Immersed electrode humidifier (D/U versions)
- Low surface temperature electrical heaters with extended fans, complete with double safety thermostat and manual resetting (T/H versions)
- Discharge temperature sensor integrated with the microprocessor to grant discharge temperature control; in combination with D and U version, moisture control can be selected

The units can be supplied with the following external accessories:

- Remote, semi-graphic user terminal
- RS485 serial adaptor to communicate with external BMS
- LON FTT10 serial adaptor to communicate with external BMS managed with LON protocol
- TCP/IP serial adaptor to communicate with external BMS managed with SNMP protocol
- Motorized damper
- Suction from the top or front discharge plenums
- Adjustable floor stands

# Uniflair AM

SDCV – SUCV



### Standard Features

- Advanced microprocessor control system is available with local or remote user terminal.
- The units are equipped with EC fans for efficiency maximization.
- The structure of the unit is characterized by a self-supporting frame in galvanized steel with panels. The external panels are coated with RAL9003 epoxy-polyester paint\* and internally lined with heat and sound-proofing insulation.
- The unit can be selected with a two-way or three-way valve and an actuator integrated with the microprocessor.
- The cooling coil is designed for an elevated SHR and reduced pressure drops in the air section. The coil is made from copper tubes mechanically expanded on aluminum fins, complete with a hydrophilic treatment.
- High-efficiency, EU4-pleated air filters are housed in a metal frame and equipped with a dirty filter differential pressure switch and low airflow differential pressure switch.

### Range

Cooling capacity: 5 ÷ 20 kW

### Refrigerant Chilled Water

### EC Fans

### Available Versions:

- Downflow (SDCV)
- Upflow (SUCV) with bottom, front, and rear suction

- Total front access is included for unit maintenance.
- The electrical panel is situated in a compartment separated from the air flow and complies with the 2006/95/EC directive and related standards.
- Microprocessor control system includes:
  - Local user terminal with external accessibility
  - Integrated LAN card for local network connection of a group of CRACs
  - Rotation and active stand-by management
  - Free contact for general and two for addressable alarms
  - Remote on/off switch
  - Ability to interface with Modbus protocol directly on RS485 serial card
  - Ability to interface with main external communication protocols: Bacnet, Lonworks, Trend, Metasys, TCP/IP, SNMP, and StruxureWare™ platform

\*RAL5013 may be used during transition period.

TECHNICAL DATA						
SDCV -SUCV MODEL		0200A(3)	0250A(3)	0300A(3)	0400A(3)	0600A(3)
Fan type		EC Backward-curved centrifugal motor fan				
Power supply	V/ph/Hz	400/3/50Hz				
Fans	Nr.	1	1	1	2	2
Airflow	m3/h	1600	2100	2100	3350	5000
Gross Total Cooling Capacity(1) (2)	kW	7,2	9,4	10,6	14,1	22,1
Gross Sensible Cooling Capacity(1) (2)	kW	6,4	8,3	9,2	12,9	19,7
DIMENSIONS						
Height	mm	1740	1740	1740	1740	1740
Length	mm	550	850	850	850	1200
Depth	mm	450	450	450	450	450
SDCV -SUCV MODEL		0200B	0250B	0300B	0400B	0600B
Fan type		EC Backward-curved centrifugal motor fan				
Power supply	V/ph/Hz	230/1/50Hz				
Fans		1	1	1	2	2
Airflow	m3/h	1600	2100	2100	3350	5000
Gross Total Cooling Capacity(1) (2)	kW	7,2	9,4	10,6	14,1	22,1
Gross Sensible Cooling Capacity(1) (2)	kW	6,4	8,3	9,2	12,9	19,7
DIMENSIONS						
Height	mm	1740	1740	1740	1740	1740
Length	mm	550	850	850	850	1200
Depth	mm	450	450	450	450	450

1. Data refer to nominal conditions: Room at 24°C-50% RH,water temperature 7/12°C, and glycol 0%, and ESP ± 20Pa.
2. Gross Cooling capacities; fans must be deduced to obtain net cooling datas.
3. Equipped with standard electrical heaters.

### Construction Options

- Double power supply with automatic, integrated management on the active line
- Immersed electrode humidifier (D/U versions)
- Low surface temperature electrical heaters with extended fans, complete with double safety thermostat and manual resetting (T/H versions)
- Discharge temperature sensor integrated with the microprocessor to allow discharge temperature control; in combination with D and U version can be selected moisture control

The units can be supplied with the following external accessories:

- Remote, semi-graphic user terminal
- RS485 serial adaptor to communicate with external BMS
- LON FTT10 serial adaptor to communicate with external BMS managed with LON protocol
- TCP/IP serial adaptor to communicate with external BMS managed with SNMP protocol
- AFPS (Automatic Floor Pressurization System) that permits to adapt its availability as a kit with installation instructions
- Motorized damper
- Suction from the top or front discharge plenums
- Adjustable floor stands