Uniflair AM
SDAC – SUAC

Standard Features
- Advanced microprocessor control system is included locally 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 SH-P 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: 2004/42/EC, 2004/108/EC, 2006/95/EC, 97/23/EC, 842/2006/EC F-GAS regulation.
- High efficiency, EUA-plated 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, Lansweaks, Trend, Metasys, TCP/IP, SNMP, and StruuxureWare™ platform

Construction Options
- Immersed electrode humidifier (3/U versions)
- Low surface temperature electrical heaters with extended fins, 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

Range
Cooling capacity: 5 – 20 kW
Refrigerant R-410A
Available Versions:
- Downflow (SDAC)
- Upflow (SUAC) with bottom, front and rear suction

Technical Data

<table>
<thead>
<tr>
<th>SDAC – SUAC MODEL</th>
<th>0151B</th>
<th>0251B</th>
<th>0151A</th>
<th>0251A</th>
<th>0331A</th>
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<td>1600</td>
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<td>6.1</td>
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<td>9.1</td>
<td>10.6</td>
<td>14.4</td>
<td>15.4</td>
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</table>

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 deducted to obtain net cooling data.
2. Data refers to nominal conditions: room at 24°C-50% RH, 45°C condensing temperature, and ESP ≤ 20Pa.
**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 hydrophobic 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, EJA-plated 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, LANSnet, Trend, Metasys, TCP/IP, SNMP, and StruxureWare™ platform
- *RAL5013 may be used during transition period.*

**Technical Data**

**SDAV – SUAV MODEL**

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<th>0151A</th>
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<th>0501A</th>
<th>0601A</th>
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<td>EC Backward-curved centrifugal motor fan</td>
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<td></td>
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<tr>
<td>Power supply</td>
<td>V/ph/Hz</td>
<td>230/1/50Hz</td>
<td>400/3/50Hz</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td>kW</td>
<td>5.4</td>
<td>8.0</td>
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<td>7.9</td>
<td>10.0</td>
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<td>16.9</td>
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<td>kW</td>
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<td>6.1</td>
<td>5.2</td>
<td>6.0</td>
<td>9.1</td>
<td>10.6</td>
<td>14.4</td>
</tr>
</tbody>
</table>

**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 ≤ 200 Pa.

**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 FTT11 serial adaptor to communicate with external BMS managed with LON protocol
  - TCP/IP serial adaptor to communicate with external BMS managed with SNMP protocol
  - APFS (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
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 SHF and reduced pressure drops in the air section. The coil is made from copper tubes mechanically expanded on aluminum fins, complete with a hydronic 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.
- 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, Lanworks, Trend, Metasys, TCP/IP, SNMP, and StruxureWare™ platform

*RAL5013 may be used during transition period.

Range

Cooling capacity: 5 - 20 kW
Refrigerant R-410A

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

Construction Options

- Immersed electrode humidifier (S1/U versions)
- Low surface temperature electrical heaters with extended fins, 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
  - LCN FTT11 serial adaptor to communicate with external BMS managed with LCN 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

TECHNICAL DATA

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<tr>
<th>SDWC - SUWC MODEL</th>
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<th>0151A</th>
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<td>400/3/50Hz</td>
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<td>1600</td>
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<td>8.3</td>
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<td>19.4</td>
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<tr>
<td>Gross Sensible Cooling Capacity (1) (2) kW</td>
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<td>6.2</td>
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<td>10.6</td>
<td>14.7</td>
<td>15.6</td>
</tr>
</tbody>
</table>

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  |
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 SH-P 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, EUA-plated 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:
  - New 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, Meta4ays, TCP/IP, SNMP, and StruureWare™ platform
*RAL5013 may be used during transition period.

Construction Options
- Immersed electrode humidifier (SUW versions)
- Low surface temperature electrical heaters with extended fans, complete with safety thermostat and manual resetting (SUW 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 adapter to communicate with external BMS
  - LON FTT11 serial adapter to communicate with external BMS managed with LON protocol
  - TCP/IP serial adapter 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

Range
Cooling capacity: 5 – 20 kW
Refrigerant R-410A
EC Fans
Available Versions:
- Downflow (SDWV)
- Upflow (SUWV) with bottom, front, and rear suction

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**Tech Data**

**Models**
- SDWV – SUWV
- Uniflair AM

**Fan Type**
- EC Backward-curved centrifugal motor fan

**Power Supply**
- 230/1/50Hz
- 400/3/50Hz

**Flow**
- m³/h
- 1600
- 1750
- 1600
- 1750
- 3000
- 3300
- 4500
- 4500

**No. of Compressors**
- 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
- 6.7
- 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 deducted 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.
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 and directly-coupled asynchronous motors.
- 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-plated 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.

Range
- Cooling capacity: 5 – 20 kW
- Refrigerant: Chilled Water

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

Technical Data

<table>
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<tr>
<th>SDCC–SUCC MODEL</th>
<th>020A(5)</th>
<th>025A(5)</th>
<th>030A(5)</th>
<th>040A(5)</th>
<th>060A(5)</th>
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<tr>
<td>Power supply</td>
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<td>8.9</td>
<td>9.9</td>
<td>12.9</td>
<td>18.2</td>
</tr>
</tbody>
</table>

Dimensions
- Height mm: 1740
- Length mm: 550
- Depth mm: 450

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

Accessories
- Remote, semi-graphic user terminal
- RS485 serial adaptor to communicate with external BMS
- LGON FTT10 serial adaptor to communicate with external BMS managed with LGON 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

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

Range
Cooling capacity: 5 - 20 kW
Refrigerant Chilled Water
EC Fans

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

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, EUA-plated 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 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, Lwars, Trend, Metasys, TCP/IP, SNMP, and StruxureWare™ platform

*RAL5013 may be used during transition period.

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 SMS
- 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
- APFS (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

Accessories

TECHNICAL DATA

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DIMENSIONS

| Height mm | 1740 | 1740 | 1740 | 1740 | 1740 |
| Length mm | 550 | 550 | 550 | 850 | 850 |
| Depth mm | 450 | 450 | 450 | 450 | 450 |

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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 data.
3. Equipped with standard electrical heaters.

Chilled water units with EC motor fans

Range
Cooling capacity: 5 - 20 kW
Refrigerant Chilled Water
EC Fans

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

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, EUA-plated 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 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, Lwars, Trend, Metasys, TCP/IP, SNMP, and StruxureWare™ platform

*RAL5013 may be used during transition period.

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:
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