Aisys CS²

Advanced and Sustainable Anaesthesia Care

A true Carestation experience

- Designed for seamless integration with GE CARESCAPE monitors.
- Enhanced with the ultra-compact CARESCAPE
 Respiratory Modules for comprehensive airway
 gas analysis of your patients, from neonates
 to adults.
- Displays breath by breath Patient Spirometry for airway pressure, flow, volume, compliance, PEEP and airway resistance measured at the patient's airway.

Exceptional user interface

- 15" full colour display utilising surface acoustic wave touch screen technology.
- Simplified workflow with configurable 'Quick Picks' for fast agent, oxygen and fresh gas flow adjustments.
- Auto alarm limits with tunnelling alarms to help you optimise alarm management for each patient.

Digitally enabled target control

- Et Control** automatically adjusts fresh gas concentrations to quickly and efficiently achieve and maintain end tidal oxygen and end tidal agent targets.
- Estimated MAC display helps you establish end tidal agent targets.

Decision support for non-automated low flow

 ecoFLOW displays agent consumption to help you mitigate wasteful over-delivery of fresh gas flow and help you avoid delivery of hypoxic mixtures in the circle breathing system during non-automated low-flow angesthesia.





Shown with PSM and B650 CARESCAPE Monitor

Advanced ventilation for neonates to adults

- ICU-inspired ventilator, with digitally controlled flow valve technology to help achieve set pressures and volumes quickly, maximizing time available for gas exchange across a wide range of patients.
- Wide range of ventilation modes offered, including VCV, PCV, PSVPro, PCV-VG, SIMV VCV, SIMV PCV, CPAP+PSV and the new SIMV PCV-VG, designed to offer support to spontaneously breathing patients.

Automated Vital Capacity and Cycling lung ventilation procedures

- Designed to help you manage lung ventilation issues during general anaesthesia.
- Vital Capacity automates the manual bag 'squeeze and hold' manoeuvre.
- Cycling provides a configurable toolkit of settings with automated delivery.

Advanced Breathing System (ABS)

 Specifically designed for low flow to help provide fast gas kinetics for rapid wash-in and wash-out of anaesthetic agent.

** Aisys CS² and Et Control are not available for sale in the United States. Not cleared or approved by the FDA. Not available in all markets.

Districtional Consolitionalisms

| Physical Specifications | | |
|-----------------------------|------------------------------------|--|
| Dimensions | | |
| Height: | 133.9 cm/52.7 in | |
| Height (with vertical arm): | 190.5 cm/75.0 in 211 cm/83.1 in | |
| Width: | 68 cm/26.8 in | |
| Depth: | 82 cm/32.3 in | |
| Weight: | 190 kg/419 lbs | |
| Top shelf | | |
| Weight limit: | 45 kg/100 lb | |
| Width: | 55 cm/21.65 in | |
| Depth: | 51.6 cm/20.31 in | |
| Upper shalf (entional) | | |

Upper shelf (optional)

| Weight limit: | 23 kg/50 lb |
|---------------|------------------|
| Width: | 54.8 cm/21.57 in |
| Depth: | 44.4 cm/17.48 in |

Work surface

Height: 87.5 cm/34.4 in 2684.2 cm²/416 in² Size:

Folding side shelf (optional)

| Weight limit: | 12 kg/25 lb |
|---------------|------------------|
| Height: | 88.17 cm/34.7 in |
| Width: | 27.7 cm/10.91 in |
| Depth: | 36.6 cm/14.41 in |

DIN rail (optional)

53.9 cm/21.22 in Side of machine:

Drawers (internal dimensions)

Small

| 10.5 cm/4.13 in |
|-------------------|
| 37.80 cm/14.88 in |
| 37.64 cm/14.82 in |
| |

Large

| Height: | 15.0 cm/5.91 in | |
|---------|-------------------|--|
| Width: | 37.80 cm/14.88 in | |
| Depth: | 37 64 cm/14 82 in | |

Absorber bag arm (optional)

| Arm length: | 39.8 cm/15.67 in |
|------------------------------|------------------|
| Bag arm height (adjustable): | 98 cm/38.6 in |
| | 123 cm/48.4 in |

Casters

12.5 cm/5 in Diameter: Central brake Brakes:

Pendant mounting interface (optional)

76 cm/29.92 in Height from floor: Suspended mass limit: 364 ka/800 lb

Ventilator Operating Specifications

Modes of ventilation (standard)

Volume Control Mode with tidal volume compensation

Modes of ventilation (optional)

Pressure Control and PCV-VG (Pressure control volume guaran-

Synchronised Intermittent Mandatory Ventilation (SIMV)

(volume, pressure and PCV-VG)

PSVPro (Pressure Support with Apnea backup) CPAP+PSV (Pressure support mode)

Notification of spontaneous breathing

Patient-generated breaths will change pressure and flow waveform color for immediate clinician notification

Ventilation parameters

Tidal volume range: 20 to 1500 mL

> (Volume Control, PCV-VG, SIMV and SIMV PCV-VG modes)

20 to 50 mL (increments of 1 mL) Incremental settings:

> 50 to 100 mL (increments of 5 mL) 100 to 300 mL (increments of 10 mL) 300 to 1000 mL (increments of 25 mL) 1000 to 1500 mL (increments of 50 mL)

Minute volume range: Less than 0.1 to 99.9 L/min

Pressure (P) Inspired range: 5 to 60 cmH₂O

(increments of 1 cmH₂O)

5 to 1500 mL volume delivery

Pressure (P) max range: 12 to 100 cmH₂O

(increments of 1 cmH₂O)

Pressure (P) support

Off, 2 to 40 cmH₂O range: (increments of 1 cmH₂O)

Rate: Rate: 4 to 100 breaths per minute

for

Volume Control, Pressure Control

and

PCV-VG; 2 to 60 breaths per minute for SIMV, PSVPro, SIMV PCV-VG; 4 to

60 breaths per minute for

CPAP+PSV

(increments of 1 breath per minute)

Ventilator Operating Specifications (continued)

| Inchiratory | loupiratoru |
|--------------|-------------|
| Inspiratory/ | expiratory |

2.1 to 1.8 (increments of 0.5) ratio:

Inspiratory time: Inspiratory time: 0.2 to 5.0 seconds

> (increments of 0.1 seconds) (SIMV, PSVPro, SIMV PCV-VG

and CPAP+PSV)

0 to 80% (increments of 5%) Trigger window:

1 to 10 I /min (increments of Flow trigger:

0.5 L/min)

0.2 to 1 L/min (increments of

0.2 L/min)

Inspiration termination

level: 5 to 75% (increments of 5%) -

Rise Rate 1-10 (PCV. PCV-VG. SIMV. PSVPro. CPAP+PSV and

SIMV PCV-VG)

Inspiratory Pause range: 0-60%

Positive End Expiratory Pressure (PEEP)

Integrated, electronically controlled Type:

OFF, 4 to 30 cmH₂O Range: (increments of 1 cmH₂O)

Ventilator performance

Pressure range at inlet: 240 kPa to 700 kPa/35 psia

to 102 psig

Peak gas flow: 120 L/min + fresh gas flow

1 to 120 L/min Flow valve range:

Flow compensation

200 mL/min to 15 L/min range:

Patient Spirometry

Pressure-volume loop Flow-volume loop Pressure-flow loop

Airway pressure and flow waveforms

Adjustable low and high alarm limits for Ppeak and MVexp

Detection through machine flow transducers.



Anaesthesia delivery screen

Ventilator Accuracy

Delivery/monitoring accuracy

Volume delivery: > 210 mL = better than 7%

> \leq 210 mL = better than 15 mL < 60 mL = better than 10 mL

Pressure delivery: ±10% or ±3 cmH₂O

PEEP delivery: ±1.5 cmH₂O

Volume monitoring: > 210 mL = better than 9%

> \leq 210 mL = better than 18 mL < 60 mL = better than 10 mL

±5% or ±2 cmH₂O Pressure monitoring:

Alarm settings

Tidal volume (V_{TC}) : Low: OFF. 1 to 1500 mL

High: 20 to 1600 mL, OFF

Minute volume (V_c): Low: OFF. 0.1 to 10 L/min

High: 0.5 to 30 L/min, OFF

Inspired oxygen (FiO₂): Low: 18 to 99%

High: 19 to 100%, OFF

Mechanical ventilation ON: Apnea alarm: < 5 mL breath measured

in 10 to 30 seconds. increments of 1 second

Mechanical ventilation OFF:

< 5 mL breath measured in 10 to 30 seconds. increments of 1 second

4 cmH₂O above PEEP Low airway pressure:

12 to 100 cmH₂O High pressure:

(increments of 1 cmH₂O)

Sustained airway pressure:

Mechanical ventilation ON:

(P) $max < 30 \text{ cmH}_2\text{O}$.

the sustained limit is 6 cmH₂O (P) max 30 to 60 cmH₂O.

the sustained limit is 20% of (P) max

(P) $max > 60 \text{ cmH}_{2}O_{1}$

the sustained limit is 12 cmH₂O

PEEP and mechanical ventilation ON:

Sustained limit increases by PEEP minus 2 cmH₂O

Mechanical ventilation OFF:

(P) $max \le 60 \text{ cmH}_2\text{O}$.

the sustained limit is 50% of (P) max

(P) $max > 60 \text{ cmH}_{2}O$.

the sustained limit is 30 cmH₂O

Subatmospheric pressure: Paw < -10 cmH₂O

Alarm silence

countdown timer: 120 to 0 seconds

^{*} Interface compatible with Kreuzer, Dräger and ceiling columns. Contact your local GE Healthcare representative for solutions to other ceiling column manufacturers.

Ventilator Components

Flow transducer

Type: Variable orifice flow sensor

Dimensions: 22 mm OD and 15 mm ID

Location: Inspiratory outlet and

expiratory inlet

(Optional autoclavable sensor available)

Oxygen sensor

Type: Optional galvanic fuel cell or paramagnetic with Respiratory

Module option

Ventilator screen

Display size: 38 cm/15 inPixel format: $1024 \text{ (H)} \times 768 \text{ (V)}$

Communication ports

RS-232C compatible serial interface

Ethernet

Datex-Ohmeda device interface solutions port

USB port VGA Output

Aladin, Cassette

Anaesthetic agent delivery

 $\mbox{Vaporizer:} \qquad \mbox{Aladin}_{\mbox{\tiny 2}} \mbox{ Cassette - Available}$

with Isoflurane, Desflurane, Sevoflurane and Enflurane

Number of

active positions: 1

Dimensions

 Height:
 7 cm/2.76 in

 Depth:
 24 cm/9.45 in

 Width:
 14 cm/5.51 in

 Empty weight:
 2.8 kg/6.2 lb

Cassette handling

No restriction for tilting during storage or handling

Agent capacity

Total (Enf, Iso, Sev): 220 mL
Total (Des): 240 mL

When cassette indicator

shows empty (Enf, Iso, Sev): 125 mL (95 mL residual volume)

When cassette indicator

shows empty (Des): 140 mL (100 mL residual volume)

Accuracy

All agents in typical operating conditions. Fresh gas flow range 1.0 to 10 L/min. Ambient temperature 18° to 25°C/64.4° to 77°F.

Enflurane, Isoflurane,

Sevoflurane: $\pm 0.2\%$ v/v of full scale or $\pm 10\%$

of setting (whichever is greater)

Desflurane: $\pm 0.5\%$ v/v of full scale or $\pm 10\%$

of setting (whichever is greater)

In other operating conditions. Fresh gas flow range 0.2 to 10 L/min. Ambient temperature 10° to 35°C/50° to 95°F.

Enflurane. Isoflurane.

Sevoflurane: $\pm 0.4\%$ v/v of full scale or $\pm 20\%$

of setting (whichever is greater)

Desflurane: $\pm 1.0\%$ v/v of full scale or $\pm 20\%$ of

setting (whichever is greater)

Agent setting ranges

Enflurane and Isoflurane: OFF, 0.2 to 5% in fresh gas flow,

resolution 0.1%

Sevoflurane: OFF, 0.2 to 8% in fresh gas flow,

resolution 0.1%

Desflurane: OFF, 1.0 to 18% in fresh gas flow,

resolution 0.2%



CARESCAPE Respiratory Modules

General specifications

E-sCAiO, E-sCAiOV, E-sCAiOE, E-sCAiOVE

Size (W x D x H): $3.8 \times 20.5 \times 11.3 \text{ cm}/1.5 \times 8.1 \times 4.4 \text{ in}$

Weight: 0.7 kg/1.5 lb

Sampling rate: $120 \pm 20 \text{ mL/min}$

Automatic compensation for atmospheric pressure variation (500 to 800 mmHg), temperature, and CO_2 , O_2 , N_2O and

anaesthetic agent cross effects.

CARESCAPE Respiratory Modules (continued)

Non-disturbing gases

Ethanol, acetone, methane, nitrogen, nitric oxide, carbon monoxide, water vapor, isopropanol, freon R134A.

Maximum effect

on readings: $CO_2 < 0.2 \text{ vol\%}; O_2, N_2O < 2 \text{ vol\%};$ Anaesthetic agents < 0.15 vol%

Carbon dioxide (CO₂)

EtCO₂: End-tidal CO₂ concentration FiCO₂: Inspired CO₂ concentration

CO₂ waveform

Measurement range: 0 to 15 vol%

(0 to 15 kPa, 0 to 113 mmHg)

Accuracy: $\pm (0.2 \text{ vol}\% + 2\% \text{ of the reading})$

GE Datex-Ohmeda infrared sensor

Adjustable low and high alarm limits for EtCO₂ and FiCO₂

Respiration rate (RR)

Measurement range: 4 to 100 breaths per minute

Detection criteria: 1% variation in CO₂

±1 breaths per minute (at 4 to 20 breaths per minute)

± 5% (at 20 to 100 breaths

per minute)

Adjustable low and high alarm limits for respiration rate;

alarm for apnea

Accuracy:

Patient Oxygen (O₂)

FiO₂: Inspired O₂ concentration
EtO₂: End-tidal O₂ concentration
FiO₂-EtO₂: Inspired-expired difference

O₂ waveform

Measurement range: 0 to 100 vol%

Accuracy: $\pm (1 \text{ vol\%} + 2\% \text{ of the reading})$

GE Datex-Ohmeda differential paramagnetic sensor Adjustable low and high alarm limits for FiO₂ and EtO₂

Nitrous Oxide (N₂O)

Measurement range: 0 to 100 vol%

Accuracy: $\pm (2 \text{ vol\%} + 2\% \text{ of the reading})$

(0%<N₂O<85%)

Anaesthetic Agent (AA)

Isoflurane and Enflurane

Measurement range: 0 to 6 vol%

Accuracy: $\pm (0.15 \text{ vol\%} + 5\% \text{ of the reading})$

Sevoflurane

Measurement range: 0 to 8 vol%

Accuracy: \pm (0.15 vol% + 5% of the reading)

Desflurane

Measurement range: 0 to 20 vol%

Accuracy: \pm (0.15 vol% + 5% of the reading)

Waveform displayed

MAC value displayed

Identification threshold: 0.15 vol %

Agent mixture detection

GE Datex-Ohmeda infrared sensor

Adjustable high and low alarm limits for EtAA and FiAA

Patient Spirometry

(available in GE Datex-Ohmeda Anaesthesia Monitor module bay)

Note: For ventilation parameters reference the ventilator

operating specifications

Pressure-volume loop Flow-volume loop

Pressure-flow loop

Airway pressure and flow waveforms

Adjustable low and high alarm limits for Ppeak and MVexp

Detection through Adult D-lite or D-lite(+) and Pediatric Pedi-lite or Pedi-lite(+) flow and gas sampling sensor with

following specifications:

D-lite Pedi-lite and D-lite(+) and Pedi-lite(+)

Respiration rate: 4 to 35 bpm 4 to 70 bpm

Tidal volume

Measurement range: 150 to 2000 mL 5 to 300 mL Accuracy: greater of (±6% or 30 mL) (±6% or 4 mL)

Minute volume

Measurement range: 2 to 20 L/min 0.1 to 5 L/min

Airway pressure

Measurement range: -20 to +100 -20 to +100 cmH,0 cmH,0

Accuracy: $\pm 1 \text{ cmH}_2\text{O}$ $\pm 1 \text{ cmH}_2\text{O}$ Display units: cmH_2O , mmHg, kPa, mbar, hPa

-25 to +25

L/min

Flow

Measurement range: -100 to +100

I:E

I:E ratio: 1:4.5 to 2:1

Compliance

Measurement range: 4 to 100 1 to 100 ml/cmH₂O ml/cmH₂O

Airway resistance

Measurement range: 0 to 200 cmH₂O/L/s

4

CARESCAPE Respiratory Modules (continued)

Sensor specifications

| | D-lite and D-lite(+) | Pedi-lite and Pedi-lite(+) |
|-------------|-------------------------|-------------------------------|
| Dead space: | 9.5 mL | 2.5 mL |
| Resistance: | at 30 L/min | at 10 L/min |
| | 0.5 cmH ₂ O | 1.0 cmH ₂ O |

Et Control**

Using CARESCAPE respiratory module E-sCAiOE or E-sCAiOVE, Et Control allows you to set the desired patient End Tidal Oxvaen and End Tidal Agent concentrations. The Aisys CS² then automatically adjusts the fresh gas concentrations to quickly and efficiently achieve and maintain these End Tidal concentrations.

Isoflurane: OFF, Purge, 0.2 - 2.5%, resolution 0.1% Sevoflurane: OFF. Purge. 0.2 - 4.0%, resolution 0.1% Desflurane: OFF, Purge, 1.0 - 12.0%, resolution 0.2%

When OFF is selected, no additional agent is added to the system and flows are controlled only based on End Tidal Oxvaen concentration.

When Purge is selected, agent is driven out of the system as fast as possible by elevating fresh gas flows.

O₂ concentration

25 to 80%, Max range:

When Max is selected, the Aisvs CS² will control the End Tidal Oxygen concentration as high as efficiently possible.

0.5 to 10 L/min, Minimum flow Flow range:

can be controlled by a user setting,

0.5 to 6 L/min

Compact Airway Modules

M-CAiO, M-CAiOV, M-CAiOVX module software version 3.2 or higher; E-CAiO, E-CAiOV, E-CAiOVX

Size (W \times D \times H): 7.5 x 22.8 x 11.2 cm/3.0 x 9.0 x 4.4 in

1.6 kg/3.5 lb Weight: 200 ±20 mL/min Sampling rate:

Automatic compensation for atmospheric pressure variation (500 to 800 mmHg) and CO₂/N₂O and CO₂/O₃ collision broadening effect.

Note: For more details on Compact Airway Modules, reference the User Manual

Compact airway module gas exchange*

(available with Mgas or Egas Compact Airway Module in GE Datex-Ohmeda Anaesthesia Monitor module bay)

Oxygen consumption VO₂:

VCO₂: Carbon dioxide production

Measurement range: 50 to 1000 mL/min Respiration rate range: 4 to 35 bpm (adults) 4 to 50 bpm (pediatric)

Compact airway module accuracy

FiO₂ < 65%: ±10% or 10 mL/min +15% or 15 ml /min 65% < FiO₂ < 85%:

Detection through D-lite flow sensor or Pedi-lite flow and gas sampling sensor (see the measurement ranges and sensor specifications above).

Electrical Specifications

Current leakage

100/120 V: < 300µA 220/240 V: < 500µA

Power

Power input: 100-120 Vac, 50/60 Hz

220-240 Vac, 50/60 Hz

Length: 5 m/16.4 ft Power cord:

10A @ 250 Vac or 15A @ 125 Vac

Battery backup

Backup power: Demonstrated battery time under

> typical operating conditions is 90+ minutes when anaesthesia machine is fully charged. Battery time under extreme conditions is 30 minutes with monitor.

Battery type: Internal rechargeable sealed lead acid

Inlet/outlet modules

100-120 V

System circuit breakers: 15A

Outlets: 4 outlets on back, 3-2A,

1-3A individual breakers. isolation transformer

220-240 V

System circuit breakers: 8A

Outlets (optional): 4 outlets on back, 3-1A.

> 1-2A individual breakers. isolation transformer

Pneumatic Specifications

Auxiliary common gas outlet (optional)

ISO 22 mm OD and 15 mm ID Connector:

Gas supply

Pipeline input range: 280 kPa to 600 kPa/

41 psig to 87 psig

Pipeline connections: DISS-male. DISS-female.

> DIN 13252. AS4059. BSPP 3/8. S90-116, or NIST

All fittings available for O₂, N₂O, and Air, and contain pipeline

filter and check valve

Cylinder input: Pin indexed in accordance

> with CGA-V-1 or DIN (nut and gland); contains input filter and

check valve

Note: Maximum 3 cylinders

Primary regulator diaphragm minimum burst pressure: 2758 kPa/400 psia

Primary regulator

nominal output: ≤ 345 kPa/50 psig Pin indexed

cylinder and ≤ 414 kPa/60 psig DIN cylinder connections

O₂ controls

Method: N₂O shut off with loss of

O₂ pressure

Supply failure alarm: Range: < 252 kPa/37 psig

Sounds at maximum volume

every 10 seconds

O2 flush: Range: > 25 L/min

Alternate O₂ (safety flow)

500 mL/min minimum Range:

to 10 L/min

Indicator: Flow tube

Indicator accuracy: ±5% full scale

Fresh gas

0 and 200 mL/min to 15 L/min Flow range:

(minimal flow capable)

Total flow accuracy: ±10% or ±40 mL/min of setting

(whichever is greater)

O₂ flow accuracy: ±5% or ±20 mL/min of setting

(whichever is greater)

Balance gas

±5% or ±20 mL/min of setting flow accuracy:

(whichever is greater) Air/N₂O

O₂ concentration range: 21% to 100%

(when Air is available)

O₂ concentration

accuracy: ±5% V/V for flows < 1 L/min*

±2.5% setting for flows > 1 L/min

Electronic mixer

response time: 500 msec (10% to 90% flow step)

Temperature and atmospheric Compensation:

> pressure compensated to standard conditions of 20°C

and 101.3 kPa

Hypoxic guard: Electronic

Materials

All materials in contact with patient breathing gases are not made with natural rubber latex

Environmental Specifications

System operation

Temperature: 10° to 35°C/50° to 95°F

Humidity: 15 to 95% relative humidity

> (non-condensing) -440 to 3000 m/

537 to 800 mmHg

System storage

Altitude:

Altitude:

-25° to 60°C/-13° to 140°F Temperature:

15 to 95% Humidity:

> -440 to 4880 m/ 425 to 800 mmHg

Oxygen cell storage: -15° to 50°C/5° to 122°F

10 to 95% relative humidity

500 to 800 mmHg

Electromagnetic compatibility

Immunity: Complies with all requirements

of EN 60601-1-2

CISPR 11 **Emissions:**

Group 1 Class A

Approvals: AAMI ES60601-1, CSA C22.2 #601.1,

EN/IEC 60601-1. ISO 80601-2-13

* The stated concentration accuracy may not be met for total flows between 200 and 400 mL/min. At least 21% O, will be maintained.

^{*} Measurement not valid with O2 and N2O mixtures

^{**} Aisys CS² and Et Control are not available for sale in the United States. Not cleared or approved by the FDA. Not available in all markets.

Breathing Circuit Specifications

Operational modes

Breathing circuit is circle mode; SCGO option converts to open circuit mode

Carbon dioxide absorbent canister

Absorbent capacity: 800 g

Integrated expiratory limb water reservoir

Ports and connectors

Exhalation: 22 mm OD ISO/15 mm ID taper Inhalation: 22 mm OD ISO/15 mm ID taper Bag port: 22 mm OD/22 mm ID (Australia)

Bag-to-Ventilator switch

Type: Bi-stable

Control: Controls ventilator and direction

of breathing gas within the circuit

Integrated Adjustable Pressure Limiting (APL) valve

Range: $0.5 \text{ to } 70 \text{ cmH}_2\text{O}$

Range of rotation: $0.5 \text{ to } 30 \text{ cmH}_2\text{O} (0 \text{ to } 230^\circ)$

30 to 70 cmH₂O (230 to 330°)

Materials

All materials in contact with exhaled patient gases are autoclavable, except disposable flow sensors, O₂ cell, and Respiratory Modules. (Autoclavable flow sensors optional)

All materials in contact with patient gas are not made with natural rubber latex.

Breathing circuit parameters

Compliance: Bag mode: 1.82 mL/cmH₂O

Expiratory

resistance: P_{exp} P_{\text

5 L/min 0.46 cmH₂O 0.46 cmH₂O 30 L/min 1.47 cmH₂O 1.55 cmH₂O 60 L/min 3.80 cmH₂O 4.09 cmH₂O

Note: Values include patient circuit tubing and wye piece

(0.3 cmH₂O at 60 L/min)

Anaesthetic gas scavenging

AGSS Type Hospital extract Machine system required connection

High vacuum, High vacuum DISS evac

low flow with 36 L/min @ 12 in Hg

indicator: (305 mmHg)

High vacuum, High vacuum DISS evac

variable flow with 30 L/min extract bag indicator: flow @ 12 in Hg

(305 mmHg)

Passive: Passive or external 30 mm/1.2 in

active system with air break

M ISO taper

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