

SPECIFICATIONS

PURGE AIR UNIT

KX-33B



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Outline

The purge air unit KX-33B is designed for use with the particle sensor KS-18F or other particle sensors. The unit supplies clean air (environmental air filtered to remove particles) to the detection component of the sensor, to prevent contamination by environmental air.

The purge air flow rate is monitored, and a visible and audible alarm is triggered when the rate exceeds the specified range. This serves to alert the operator of the degradation due to pump or filter aging or problems with the tubing connection between the unit and the particle sensor.

To prevent the particle sensor from being operated while the purge air unit is not active, the unit is equipped with a CONTROLLER connector to supply power to the system controller.

Specifications

Number of connectable sensor	1
Supported sensor model	KS-18F
Flow rate	Approx. 7.5 L/min
PURGE air port	Clean air outlet for purging, one-touch joint for dia. 6 mm tube
Indicators	Two-color LED
POWER indicator	Lit in green when power is on
AIR FLOW indicator	Lit in green during normal operation Lit in red when flow rate become the outside of specified range Specified range: 5 L/min to 10 L/min (3 L/min to 10 L/min for factory option products)
Input/Output connectors	
ALARM	When flow rate become the outside of specified range (or when there is a tubing connection problem), alarm buzzer sounds and ALARM terminals are closed by internal relay contacts Maximum load: 30 V DC, 1 A Terminal type: M3 screw terminal board, accepts either electric wire with a 1.25 mm ² cross section or spade (Y-type) terminals
CONTROLLER	AC outlet for supplying power to controller +220 V AC to +240 V AC $\pm 10\%$ Grounded 3P connector, dia. 4.8 side ground Maximum load: 130 VA

Supported model selection [Factory option]

By changing the flow rate specified range (3 L/min to 10 L/min), particle sensors other than KS-18F can be connected.

Supported models KS-16, KS-16F, KS-17B, KS-19F, KS-41A, KS-41B, KS-42A, KS-42AF, KS-42B, KS-42BF, KS-42C, KL-28B, KL-28BF

Environmental conditions for operation

+15°C to +35°C, max. 85% RH (no condensation)

Environmental conditions for storage

-10°C to +50°C, max. 90% RH (no freezing, condensation)

Power

+220 V AC to +240 V AC, 50/60 Hz,
approx. 160 VA (Maximum load)

Dimensions

Approx. 145 mm (H) × 205 mm (W) × 215 mm (D) (maximum dimensions)

Approx. 130 mm (H) × 200 mm (W) × 200 mm (D) (without protruding parts)

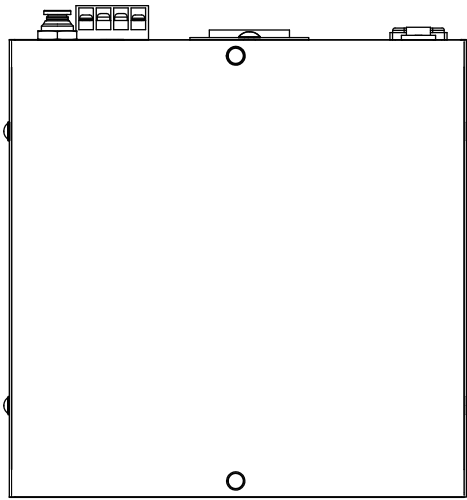
Approx. 2.5 kg

Supplied Accessories

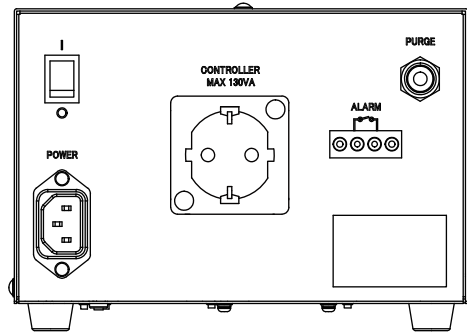
Power cord	1
UF tube (3 m)	1
Instruction manual	1
Inspection certificate	1
Elbow joint PL6-01 (Factory option products only)	1

Consumable Parts

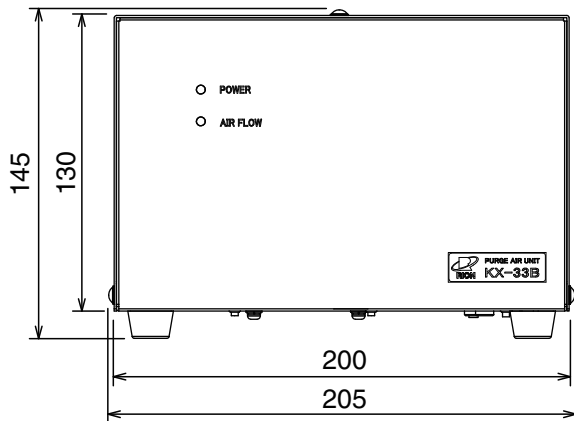
Pre-filter, main filter, air pump



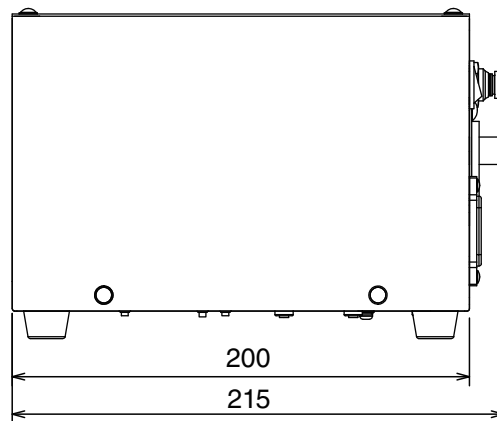
Top view



Rear view



Front view



Right side view

Unit: mm

Dimensional Drawings

Specifications subject to change without notice