

ICAN INTELLIGENT AIR FLOW DEVICE 70-200



INSTRUCTIONS FOR USE

ICAN INTELLIGENT AIR FLOW DEVICE 70-200



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1

IMPORTANT INSTRUCTIONS

ICAN INTELLIGENT AIR FLOW DEVICE 70-200

Content	page
Important instructions	1
General	2
Application / Limitation / Filters	3
Head product / Sound- and warning signals	4
Control before use / Putting on	5
Cleaning / Maintenance / Storage	6
Troubleshooting	7
Charging of battery / Approved Institution	8
Construction	9
Tables	10
Marking	11

Important instructions

In order to achieve correct and effective use of ICAN INTELLIGENT AIR FLOW DEVICE, it is extremely important to read and comply with these instructions.

Only original ICAN-spare-parts may be used when maintaining and repairing ICAN INTELLIGENT AIR FLOW DEVICE.

ICAN A/S recommends regular service at least once a year. Service and repair should be carried out by trained personnel. More extensive repairs should be carried out by ICAN A/S' technical department.

ICAN A/S disclaim any responsibility for repairs not carried out by ICAN A/S' technical department.

GENERAL

2

ICAN INTELLIGENT AIR FLOW DEVICE is a CE-marked turbo unit, tested and approved in accordance with the European standard EN 12941:98 and EN 12942:98.

ICAN INTELLIGENT AIR FLOW DEVICE consists of motor/blower unit with belt - flexible hose with standard connection - rechargeable battery - charger and flowmeter. Two filters with standard connection can be mounted on the motor unit. The battery has sufficient capacity for a normal working day.

ICAN INTELLIGENT AIR FLOW DEVICE, together with 2 identical, approved ICAN Filters and with approved full face mask - helmet - hood or shield, constitutes a system for cleaning the inhalation air for damaging gasses, damaging steam and/or damaging particles and then protecting the user's respiratory organs and possibly eyes, face and head, depending of the head unit chosen.

ICAN INTELLIGENT AIR FLOW DEVICE which are carried in a belt together with a chargeable battery, is constructed to be easy and comfortable to carry.

ICAN INTELLIGENT AIR FLOW DEVICE is provided with an electronic, intelligent control, which provides for correct air flow to mask or hood (130-150 l/min), provided that the capacity of the battery is used optimally, and communicates with the user by giving different acoustic signals.

ICAN INTELLIGENT AIR FLOW DEVICE is constructed to be easy to clean and can stand shower when it is in use, if ICAN shower cap for filters have been mounted on the hole in the 2 mounted filters.

3

APPLICATION/LIMITATION/FILTERS

Application/Limitation

If the polluted air's oxygen content is 17-21% (volume), ICAN INTELLIGENT AIR FLOW DEVICE can be used with a gas, particle or combined filter. Use an oxygen meter to ascertain the oxygen content of the air. Follow the filter's instructions for use carefully.

If the oxygen content of the air is less than 17% (volume), or if the gas concentration exceeds the maximum allowable gas concentrations in relation to the gas filter class used, as shown in table 3 (see page 10), respirator protection with air supply which is independent of the surrounding air must be used.

ICAN INTELLIGENT AIR FLOW DEVICE is not approved to use in explosive areas.

Leave the working area immediately, check the system and replace parts if:

1. ICAN INTELLIGENT AIR FLOW DEVICE gives warning signals.
2. Air flow stops.
3. Breathing difficulties occur.
4. Dizziness or indisposition occurs.
5. Pollution can be tasted or smelt, or other irritation occurs.

Note that some types of contamination have a smell limit, which is so low, that the limit for the substance has already been exceeded when the substance can be smelt.

ICAN INTELLIGENT AIR FLOW DEVICE must never be modified or altered.

FILTERS

Only ICAN filters which are approved for ICAN INTELLIGENT AIR FLOW DEVICE must be used.

Always mount **2 new** filters of the **same type**.

If the equipment is used in the shower, an ICAN shower cap must also be mounted on the filters (Item no. 40-901).

Regarding choice of filter etc., refer to ICAN's datasheets and instructions for use for standard filters.

HEAD UNIT (MASK/HELMET/HOOD/SHIELD)

ICAN INTELLIGENT AIR FLOW DEVICE is also approved with other head units than ICANs. This will appear from the instructions for use for the various products. If there are any doubts, please contact a dealer or ICAN A/S.

ACOUSTIC/WARNING SIGNALS

ICAN INTELLIGENT AIR FLOW DEVICE gives an acoustic signal (bip) which is lead to the head unit via the hose.

ICAN INTELLIGENT AIR FLOW DEVICE gives the following signals:

- • (2 fast bips) ICAN INTELLIGENT AIR FLOW DEVICE ready for use.
When "ON" button is activated, 2 fast bips are heard.
- • • • • (Fast bips) Low battery (recharge or change battery)
or
Leakage in hose connection between head unit and ICAN INTELLIGENT AIR FLOW DEVICE.
- • • • (Pause between bips) Filters are clogged (change filters)
Flow too low.

CHECK BEFORE USE

Check, that ICAN INTELLIGENT AIR FLOW DEVICE does not have any visible damage.

Check, that the hose is fastened correctly.

Check, that the filters are suitable for protection against the surrounding pollution, and that they are screwed in completely.

Connect fully charged battery, and mount it on the belt.

Check, that the head unit is in accordance with the instructions for use.

Check, that the system gives a ready signal (2 fast bips) when "ON" button is activated, and that the head unit is supplied with air.

If relevant, check the flow with enclosed flowmeter.
Place the flowmeter vertically on the hose "mouth", then the "ON" button activates.
If the ball's centre is above the lowest line which indicates 130 l/min, the flow is sufficient

PUTTING ON

Place the belt around the stomach with the turbo's hose upwards. Place the turbo on the back or on the right hip. Adjust the belt by pulling in the loose ends.

Check that the hose is mounted on the head unit.

Start the turbo on the red "ON" contact and note if the turbo gives a "ready for use" signal (2 fast bips).

Put on the head unit according to the instruction for use.

CLEANING

At the end of a job, it can be necessary to take a shower, to remove pollution on the equipment etc.

Remember to use ICAN shower caps on filters (Item no. 40-901).

When the equipment is taken off, clean the parts by wiping off with a cloth or sponge with a mild detergent.

Take measures against breathing of any unhealthy steams or particles, which the equipment may contain.

Do not use solvents, e.g. petrol or spirit.

The equipment should be completely dry before it is stored.

MAINTENANCE

Clean the equipment after use.

Check and change damaged parts, if any.

Recharge battery.

It is recommended that ICAN INTELLIGENT AIR FLOW DEVICE is forwarded through the dealer for examination and control once a year.

STORAGE

Before ICAN INTELLIGENT AIR FLOW DEVICE is stored, it has to be clean and dry.

Dismount filters in use and plug them or store them in their own, airtight packing.

Store ICAN INTELLIGENT AIR FLOW DEVICE under normal humidity and temperature (min. -20 °C, max. 60 °C).

TROUBLESHOOTING

No air flow:

- Battery discharged
- The switch is “OF” (red button)
- The switch is defect
- Wire or plug defect
- Plug in filters have not been removed

Air flow to low: (see acoustic signals on page 4)

- Battery insufficiently charged
- Filters are clogged
- Hose blocked or leaking
- Blocked or leak in head unit

Battery does not charge:

- Battery defect or worn-out
- Wire or plug defect
- Charger defect

Any repairs should be carried out by trained personnel.

CHARGING OF BATTERY

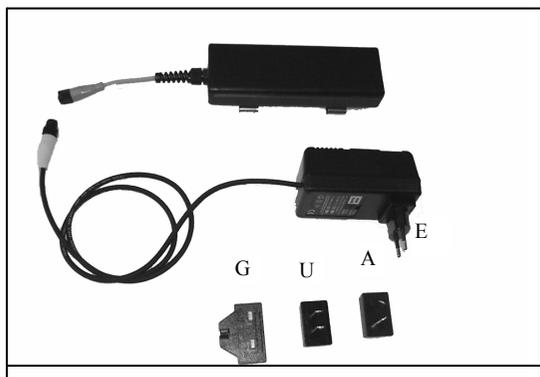
Use the delivered intelligent charger.

The charger can be used for an input of 100 – 240 Volt.
 The charger is available with various net plugs.
 Max. output is 12 Volt.

Dismount the battery's wire from the Turbo.
 Connect the wire from the charger to the terminal in the battery.
 Check that the red lamp on the charger flashes (flashing 10 seconds).
 When the battery is fully charged, the green lamp on the charger will light.

New batteries are not charged, and need a longer initial charging period.

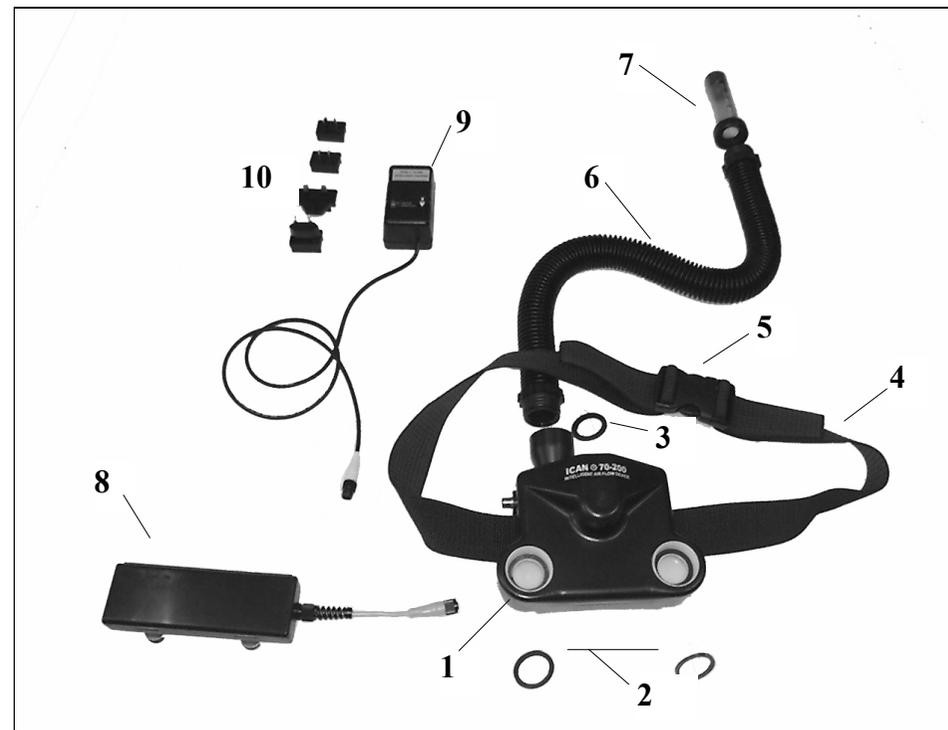
If you want to discharge the battery, you have to press the yellow push button on the charger for about two seconds (The red lamp will flash during discharging).
 We recommend that you discharge the battery pack when you have charged it 5–8 times.



APPROVED INSTITUTION

Force Dantest-CERT, park Allé 345, DK-2605 Brøndby, identification number 0200, has been involved in the construction phase of ICAN AIR FLOW DEVICE 70-200.

Component parts:



Component parts:

Pos.	Name	Pos.	Name
1	Blower (weight 600 g)	6	Hose
2	Inletgasket	7	Flow-meter
3	Outletgasket	8	Battery NiMh (weight 590 g)
4	Belt	9	Charger, intelligent
5	Buckle	10	Net plug (E-G-U-A)

Table 1 - Spare parts

Pos. no. (see p. 9)	Description	Item no.	Pieces
2+3	Gasket set	70-201	1
4+5	Complete belt	70-030	1
6	Hose with standard connection	70-001	1
7	Flow meter	70-006	1
8	Rechargeable battery NiMH	70-010	1
9+10	Charger complete, intelligent	*70-020 (E-G-U-A)	1

* Order with net plug for EUROPA-GB-USA-AUSTRALIA.

Table 2 - Maintenance and testing

Component	Service	Service interval		
		After use	Before use	Yearly
All parts	Cleaning	•		
	Visual control	•	•	
Battery	Charging	•		
	Testing		•	
Turbo	Flow measuring		•	
Gasket	Replacement			•
Turbo	Checking			•

Table 3 - Gas filter class

Gas filter class	Highest allowable gas concentration
1	0,1 Vol. %
2	0,5 Vol. %
3	1,0 Vol. %

Marking of year of manufacturing.

TURBO



- A. Product no.
- B. Internal ICAN marking
- C. Month and year of manufacturing.
In the example shown, the date of manufacturing is October 2001.
- D. European standard to which the product is tested.
- E. Individual product id no.
- F. Finished control id.

BATTERY



- A. Product no.
- B. Internal ICAN marking
- C. Month and year of manufacturing.
In the example shown, the year of manufacturing is October 2001.