

**Fast, safe and complete removal of
plastic and other organic contaminations
from metal parts and tools**



INDIRECTLY
ELECTRIC HEATED

SYSTEM INNOVACLEAN

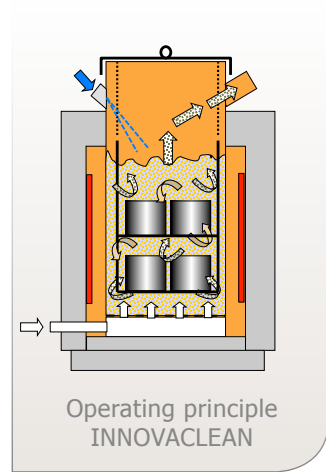
OPERATING PRINCIPLE

INNOVACLEAN removes all organic contamination including halogenated polymers from heat resistant metal parts by thermal decomposition in a fluidized bed.

Cleaning time: 1 – 4 h

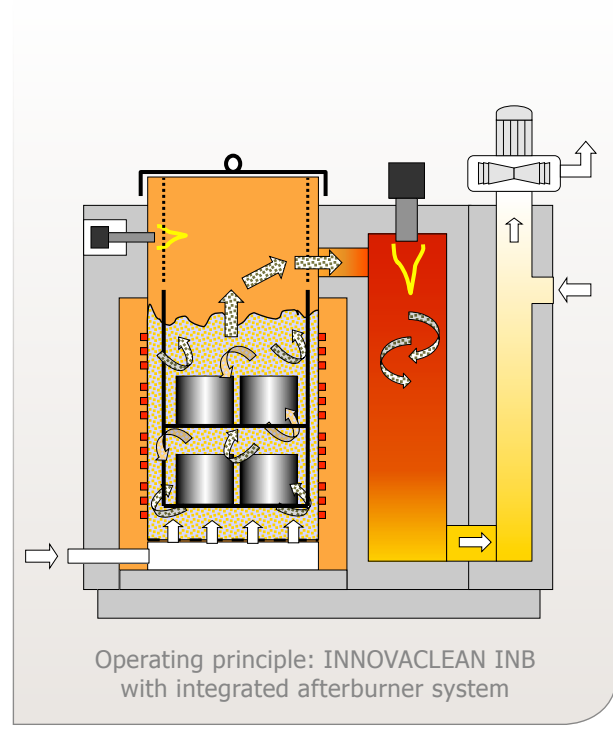


INNOVACLEAN ECO1



Operating principle
INNOVACLEAN

INNOVACLEAN
2448-INB



Operating principle: INNOVACLEAN INB
with integrated afterburner system

FLUIDIZED BED CLEANING PROCESS



APPLICATIONS

The most common pieces for cleaning are dies and parts out of the plastics and fiber industry:

- Synthetic fiber and nonwovens
- Polymer production
- Masterbatch production
- Injection Moulding
- Extrusion

ADVANTAGES

- Very short cleaning time
- Suitable for all organic resins and polymers (incl. PVC, PTFE, PEEK...)
- Outstanding flexibility
- Perfect cleaning results even inside assembled dies or parts that are highly complex
- Free from carbon residues
- Precise temperature control
- No risk of overheating or distortion
- Perfect off-gas cleaning by optional thermal afterburner and scrubber for halogens
- No organic disposals



INNOVACLEAN
2448-INB-S
with scrubber

TYPICAL COMPONENTS

Fluidized bed systems are especially recommended for:

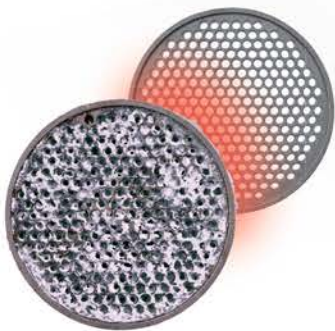
- Spinnerets, assembled spin packs
- Special profile dies
- Pelletizing dies
- Breaker plates
- Hot runners
- Extruder screws, screw elements
- Static mixers
- Starters, alternators, pumps, engines

FAST, SAFE, EFFECTIVE AND GREEN



TYPICAL POLYMERS

- Halogenated Polymers: PVC, PTFE
- Polysulfides and Polysulfones: PPS, PSU
- Polyetherketones: PAE, PEK, PEEK
- Polyamides: PA6, PA6.6, PA12, PPA
- Polyesters: PET, PBT, PC, PTT, PEN
- Polyolefins: PE, HDPE, PP, PB, EVA, EVOH
- Polyacrylates: PAN, PBA, PMA, PMMA
- Polystyrenes: PS, ABS, SB, SBS, SAN
- Biopolymers: PLA, PEA, PVAL, PPOX
- Polyimides: PI, PBI, PEI, PBO, PMI
- Polyurethanes: PUR, TPA, TPO, TPU
- Other polymers on request



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SCHWING
TECHNOLOGIES

ACCESSORIES

Depending on the cleaning application a variety of customized accessories and post treatment systems are optionally offered:



Thermal afterburner systems & scrubbers



Loading baskets, tables and racks



Ultrasonic & rinse units



Shot blasting systems

Quality inspection systems



High pressure cleaning equipment



TECHNICAL DATA OF STANDARD SIZES

INNOVACLEAN	Loading basket (inner dimensions)	Maximum loading	Organic load ¹⁾	Utility consumption					Total dimensions
				Power	Gas	Compr. air	Water		
Model	L x W/D x H [mm]	[kg]	[kg/h]	[kW]	[m ³ /h]	[kW/h]	[m ³ /h]	[l/h]	L x W x H [mm]
ECO1	190 x 190 x 300	16	0 - 3	6	–	–	14	4	890 x 800 x 950
ECO3	680 x 190 x 300	49	0 - 3	11	–	–	40	11	1420 x 890 x 950
1540	Ø 310 x 850	87	0 - 3	14	–	–	27	7	1180 x 1020 x 1960
2040	Ø 380 x 850	134	0 - 3	20	–	–	42	11	1180 x 1020 x 1960
2448	Ø 480 x 1050	225	0 - 7	43	–	–	60	16	1440 x 1350 x 1950
3248	Ø 670 x 1050	403	0 - 10	53	–	–	109	89 ²⁾	1630 x 1700 x 2100
3648	Ø 750 x 1050	505	0 - 10	64	–	–	130	111 ²⁾	1900 x 1900 x 2100
... with integrated thermal afterburner									
ECO3-INB	680 x 190 x 300	49	0 - 3	12	2	20	40	11	1850 x 1650 x 1660
1540-INB	Ø 310 x 850	87	0 - 3	14	3,5	35	80	–	2260 x 2220 x 2370
2040-INB	Ø 380 x 850	134	0 - 3	20	3,5	35	94	–	2260 x 2220 x 2370
2448-INB	Ø 480 x 1050	225	0 - 7	28	3,5	35	113	–	2260 x 2220 x 2590
3248-INB	Ø 670 x 1050	403	0 - 10	72	12	120	290	–	2480 x 4170 x 2670
3648-INB	Ø 750 x 1050	505	0 - 10	72	12	120	317	–	2480 x 4200 x 2670

¹⁾ Depending on capacity of thermal afterburner and type of organic / plastic contamination.

²⁾ [kg/h] – INNOVACLEAN 3248 and 3648 operate with steam inertization.

The data and illustrations in this brochure refer to the date of printing. All data are approximate. SCHWING reserves the right to make any necessary changes at any time and without special notice.

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