

DATA SHEET

Si-83 Pack 2

Tank Pump

Sauermann® part #: SI83CE02UN23 - SI83CE42UN23 - SI83CE43UN23

The Tank Pump Re-Invented

Sauermann engineers have redesigned the tank pump from the inside-out, making the Si-83 more compact than any other tank pump in its class, all while redefining just how easy tank pump installation and maintenance can be in the field. The Si-83 even comes with a customized Smartphone App that makes installation both simple and intuitive.

The Si-83 is constructed from rugged materials and components for exceptional durability and reliability. The Si-83 tank pump from Sauermann is perfect for residential A/C (up to 20 kW) and heating units (up to 40 kW).



*Only with SI83CE43UN23

Benefits



Exceptional Durability and Reliability

- Float design resistant to fouling
- Stainless steel motor shaft
- Tolerates acidic condensates (pH >2.5) produced by gas-condensing boilers



Quick & Easy Maintenance

- No need to remove pump from installation to clean
- Removable anti-return valve
- Maintenance function in the Smartphone App (available for both iOS and Android devices)



Quick & Easy Installation in any place

- Designed for intuitive installation
- Can be floor-mounted, wall-mounted, or suspended from the ceiling
- Can be easily installed whatever the lay out of the premises thanks to its very compact profile: 129 mm in height
- 5 inlet options for unmatched versatility Ø 30 mm: 4 on top, 1 on the side for low condensate entry
- Rod mounting system makes levelling easy
- Customized Smartphone App (available for both iOS and Android devices)



Regular duty

- Max. pressure: 5.7 m
- IP 44
- 2-Liter tank capacity

Kit content

- One-piece centrifugal pump with 2 l tank
- Integrated barb end check valve, Ø ext. 10 mm
- 1.8 m power cord, plug
- Built-in safety switch, 1 m wires, bare ends, NC (SI83CE02UN23) or NO (SI83CE42UN23, SI83CE43UN23)
- 2 screws, 2 plugs
- Multi adaptor to be used for Ø 15/17 - 20 - 24/25 - 32 - 40 mm tubes
- Clear PVC tubing Ø int. 10 mm, 5 m roll
- pH Safe 1 Neutralization Cartridge (SI83CE43UN23 only)

Technical specifications

| | |
|---------------------------------------|--|
| Tank capacity | 2 l |
| Mains supply | 230 V~ 50 Hz - 115 W – 1.4 A |
| Max discharge head | 5.4 m (65 l/h) |
| Max pressure (flow rate 0) | 5.7 m |
| Sound level in application at 1m | ≤ 45 dBA (Measured in Sauermann acoustic lab, pump operating with water) |
| Max condensate temperature | 55°C, 80°C short peaks 10 minutes |
| Max condensate acidity | pH > 2.5 (Gas condensing boilers) |
| Pump Weight (with packaging) | 2.4 kg |
| Box dimensions | L 315 mm x W 151 mm x H 227 mm |
| Masterpack | L 332 mm x W 321 mm x H 480 mm |
| Pallet quantity | 72 pieces (EUR size) |
| Safety switch | SI83CE02UN23: NC: 5 A resistive 250 V SI83CE42UN23 & SI83CE43UN23: NO: 5 A resistive 250 V |
| Thermal protection (overheating) | Yes: 120°C (auto reset) |
| Operating conditions | 7%: 16s ON - 212s OFF |
| Class | I |
| IP index | IP44 |
| pH Safe cartridge inlet tube diameter | Ø int. 15 - 17 mm (19/32" - 5/8") |
| Safety standard | SI83CE02UN23: CE / EAC (Q2/2020) SI83CE42UN23 & SI83CE43UN23: CE |
| RoHS directive | Compliant |
| WEEE directive | Compliant |

Applications





Residential applications:

Air-conditioning up to 20 kW

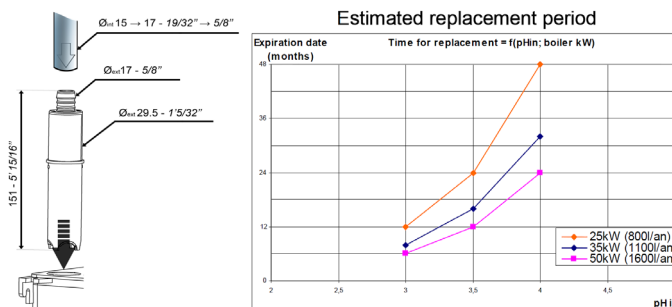
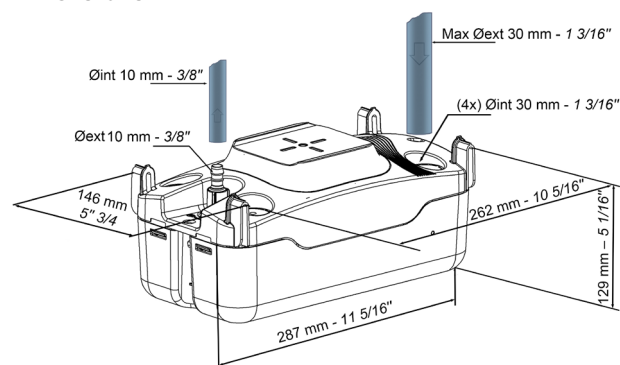
Heating up to 40 kW

- Gas condensing boilers
- Condensing high efficiency gas furnaces

Accessories

| Name | #Part |
|---|--------------------------------|
|  Clear PVC tubing Ø int. 10 mm, 25 m roll | ACC00911 ACC00915 (braided) |
|  Non-Return Check valve for Ø ext. 10 mm tubes | ACC00925 |
|  3 size multi adaptor to be used for Ø 15/17 - 20 - 24/25 - 32 - 40 mm tubes | ACC00939 |
|  pH Safe 1 Neutralisation Cartridge | PH0100SIUN23 |

Dimensions



Condensate inflow rate (l/h)

| Discharge head | Total tube length using Ø int. 10 mm | | | |
|----------------|--------------------------------------|------|------|------|
| | 5 m | 10 m | 20 m | 30 m |
| 1 m | 26 | 23 | 17 | 13 |
| 2 m | 22 | 19 | 14 | 13 |
| 3 m | 19 | 16 | 11 | 8 |
| 4 m | 13 | 10 | 7 | 6 |
| 5 m | 8 | 6 | 4 | - |