

DATA SHEET

# Si-83 Pack 1

## Tank Pump

Sauermann® part #: SI83CE01UN23 - SI83CE41UN23 - SI83CE71UN23



### 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).

### 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, plug, NC (SI83CE01UN23), NO (SI83CE41UN23) or NC/NO (SI83CE71UN23)
- 2 screws, 2 plugs
- Straight connector with tube and ziptie for Ø 6 mm int. tubes

## 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)	1.83 kg
Box dimensions	L 315 mm x W 151 mm x H 175 mm
Masterpack	L 780 mm x W 332 mm x H 203 mm
Pallet quantity	105 pieces (EUR size)
Safety switch	SI83CE01UN23: NC: 5 A resistive 250 V SI83CE41UN23: NO: 5 A resistive 250 V SI83CE71UN23: NC/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
Safety standard	SI83CE01UN23: CE / EAC (Q2/2020) SI83CE41UN23 & SI83CE71UN23: CE
RoHS directive	Compliant
WEEE directive	Compliant

## Applications

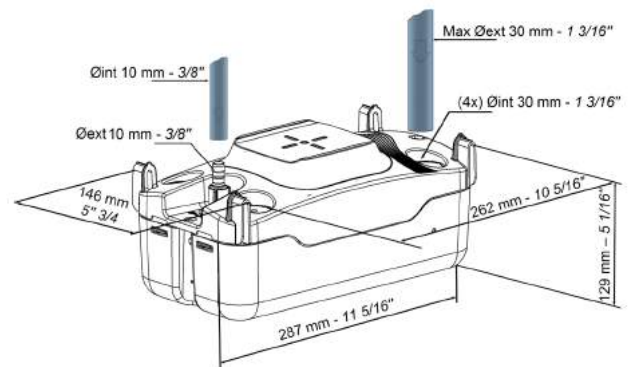
Residential applications:  
Air-conditioning up to 20 kW  
Heating up to 40 kW

- Gas condensing boilers
- Condensing high efficiency gas furnaces

## Accessories

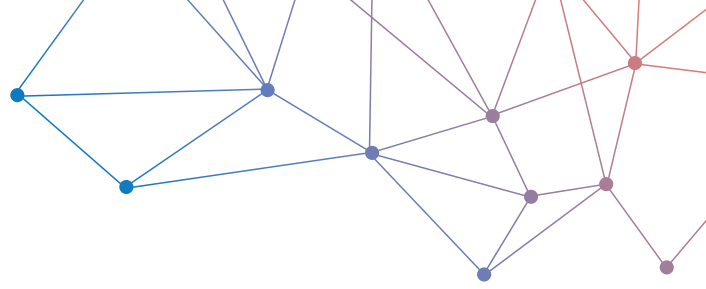
Name	#Part
 Clear PVC tubing Ø int. 10 mm, 25 m roll	ACC00911 ACC00915 (braided)
 Non-Return Check valve for Ø ext. 10 mm tubes	ACC00925
 3 size multi adaptor to be used for Ø 15/17 - 20 - 24/25 - 32 - 40 mm tubes	ACC00939

## 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	-



DATA SHEET

# DELTA PACK 80x60

## Piston pump - condensate removal system

Sauerermann® part #: DP10CE05UN23



### Ensures quick and easy installation and maintenance

Delta Pack 80x60 includes a new elbow design that can be easily opened by hand by a simple finger push -- no tool is needed. Its streamlined design complements wall mounted air conditioning units. It includes the Si-10 UNIVERS'L pump which incorporates the latest in piston pump technology.

### Benefits



#### Easy installation and maintenance

- New quick fit and release corner piece.
- Simple finger push-in technology: no tools needed. Can be opened by hand.
- One piece pump for easy installation.
- The kit content allows for versatility of installation, matching real needs on the field.
- Transparent and removable reservoir.
- Translucent hose: easy to track waterflow, build-up, etc.



#### Improved design

- Compact elbow and trunking design that can be easily opened and maintained.
- Improved internal space design with increased space for pipework.
- No connection piece where elbow meets the straight length of duct.
- Color: RAL 9003 (Signal white – Brilliant white).
- Flush fitting of all parts.
- Complements and sits flush to the A/C unit using a rubber gasket.



#### Quiet

- Quiet pump operation: 22 dBA at full power – independently tested.
- Elbow includes 'High Energy Absorbing Foam' to absorb vibration and sound.
- Anti-vibration and condensate insulation included on discharge line.



#### Proven reliability


- Patented pump technology.
- No connection piece connecting the elbow and the straight length of duct.
- High flow rate - Up to 20 ltr/hr = Less run time.
- The Drain Safe Device prolongs the pump life.
- Lockable plug-in power cable to avoid unintended disconnection.

### Kit content

- Si-10 UNIVERS'L piston pump with:
  - Integrated condensate detector
  - Clear PVC tube int. Ø 6mm – L: 1 m, foam-insulated over 800 mm, fitted with a "Drain Safe Device" pre-mounted
  - 1.5 m lockable plug-in power cable:
    - 2 power wires, 2 safety contact wires
- 2-part elbow (base and cover)
- Ceiling duct (covers hole in false ceiling)
- Rubber Elbow/Split gasket
- 650 mm flexible hose
  - int. Ø 15 mm (connects to split)
- Vent pipe
- Six screws and plugs for fixing duct and elbow
- 4 double wire clamps Ø 16 mm, 1 double wire clamps Ø 6 mm
- 750 mm duct 80x60 mm

## Technical specifications





<b>Max. flow rate</b>	20 l/h
<b>Max. discharge head</b>	10 m (Flow rate = 4 l/h)
<b>Max pressure</b>	14 m (Flow rate = 0 l/h)
<b>Sound level at 1m</b> according to EN ISO 3744 (Measured at LNE lab, pump operating with water, out of application)	≤ 22 dBA
<b>Mains supply</b>	230 V~ 50/60 Hz - 14 W
<b>Isolation class</b>	 (double insulation)
<b>Detection levels</b>	On: 18 mm; Off: 13 mm; Safety: 21 mm
<b>Safety switch</b>	NC 8 A resistive – 250 V
<b>Thermal protection (overheating)</b>	115 °C (auto-reset)
<b>Max. condensate temperature</b>	35 °C
<b>Operating conditions</b>	100 % - Continuous duty
<b>Protection</b>	IPX4
<b>Color</b>	RAL 9003 - signal white (brilliant white)
<b>Elbow dimensions</b>	L 130 x W 130 x H 60 mm
<b>Duct dimensions</b>	L 750 x W 80 x H 60 mm
<b>Lineset</b>	Ø max :3/8" – 5/8" isolated (Up to 13 kW)
<b>Safety standards</b>	CE & EAC
<b>RoHS directive</b>	Compliant
<b>WEEE directive</b>	Compliant
<b>Packaging</b>	1.55 kg - L 763 x W 225 x H 62 mm
<b>Masterpack</b>	5 pieces

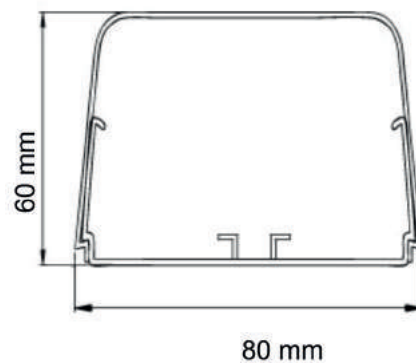
## Applications

### Air-conditioning wall mounted

(connection pipes Ø max 3/8" – 5/8" insulated)

## Accessories

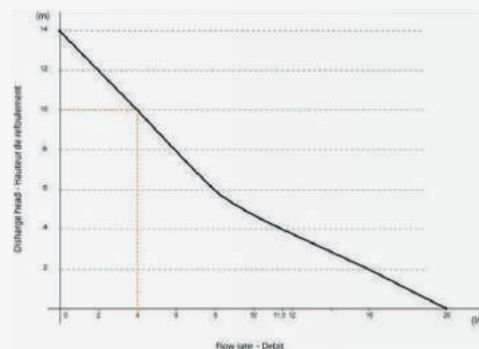
Name	#Part
 Clear PVC hose Ø int. 6 mm (1/4")	ACC00909: 5 m ACC00910: 50 m
 6 self-sealing fittings for hose Ø int. 6 mm (1/4")	ACC00919



## Actual flow rates (l/h)

Total hose length using (Ø Int. 6 mm, 1/4")

Discharge head	5 m	10 m	20 m	30 m
0 m	20	19	18	17
2 m	16	15	14	13,5
4 m	11.5	11	10.5	10
6 m		8.5	7.5	6.5
8 m		6	5	4
10 m		4	3.5	2.5





AIR CONDITIONING



REFRIGERATION



HEATING



EN

# Universal

## CONDENSATE REMOVAL PUMP



The top selling Universal is operated by two air temperature sensors. The peristaltic rotary movement creates a continuous pressure meaning the pump can be sited up to 3m away from the source with no effect in performance.



6.5L/h max. flow



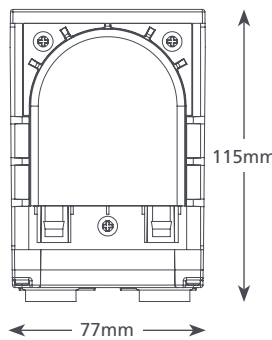
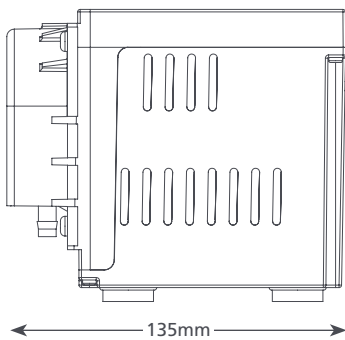
12m max. head (flow rate 6.5L/h)

### KEY FEATURES

- Air temp. sensor operated
- Remote install possible
- Pumps contaminated water
- Can run dry

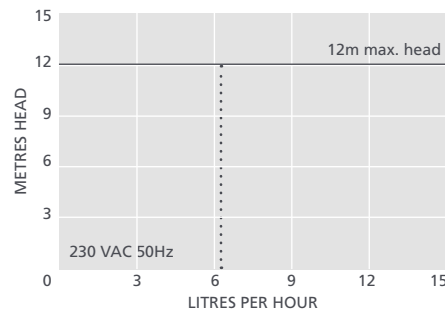
### SUITABILITY

- Up to 8.5kW / 29,000Btu/h
- High wall split systems; Ducted units; Floor standing & Chassis units
- ✓ **Perfect for...** Air temperature operation



1.35 kg

UNIVERSAL @ 230 VAC 50Hz	
Max. flow	6.5L/h @ 12m head
Max. head	12m
Max. suction lift	3m
dB(A) @ 1m	47
Power supply	230 VAC, 0.2A, 50/60Hz
Rated	Continuously
Class	I appliance
Max. unit output	8.5kW / 29,000Btu/h
Max. water temp	40°C / 104°F
Inlet/outlet	6mm ID
IP Protection	IP21
Safety switch	n/a
Thermal protection	✓
Fully potted	n/a
Self priming	✓



SUGGESTED XTRA ACCESSORIES	
Description	Part No.
Peri Spare Tube Kit	FP1282
1 Amp Fuse	FP2620
Tube To Soil Stack Adaptor	FP2038

**Xtra** For more installation accessories take a look at our Aspen Xtra range

UNIVERSAL OPTIONS	
Universal	FP2082/2

IN THE BOX
Universal pump • 3m Plug & play power / sensor cable • Wall mounted bracket • Fixing kit • Install manual

- Download manual at [aspenspumps.com](http://aspenspumps.com)
- View install video at [aspenspumps.com](http://aspenspumps.com)

Information correct at time of going to press.



[aspenspumps.com](http://aspenspumps.com)

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[sales@aspenspumps.com](mailto:sales@aspenspumps.com)

reliable | silent | simple

# MINIBLUE®



**3** YEAR WARRANTY

## PERFORMANCE

21 dba

MAX FLOW	MAX HEAD	MAX LIFT
8 L/ HOUR	8 METRES	5 METRES

Running either wet or dry, the MINIBLUE® is whisper quiet whilst reliably removing condensate and debris. Inherently reliable whilst self priming it gives peristaltic performance at the price of a piston pump. The MINIBLUE® is small enough to quickly fit, or retro fit, into any existing installation, saving both time and money.



UNIT  
3.5-8 KW

## SENSING OPTION

MINIBLUE® pump available with:

CR PLUG	TEMPERATURE SENSOR
X87-500	X87-504
	



**RUN DRY**

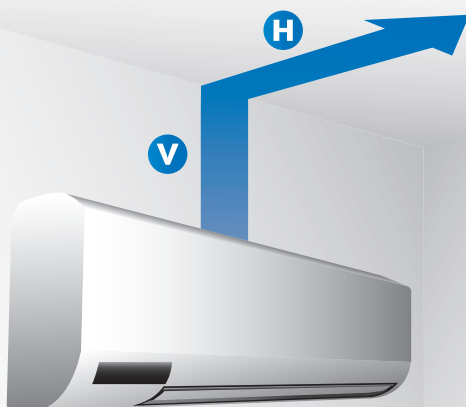
All of the BLUEDIAMOND® pumps have the ability to run dry without burning out. Enabling them to remove any liquids, preventing organic growth inside the tubing.



**WHISPER QUIET**

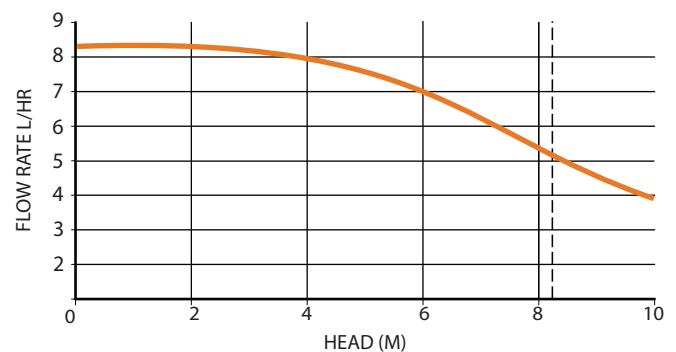
Quiet in all stages of operation and not only when set to quiet mode or relying on a soft start setting.

## DISCHARGE PIPE RUN

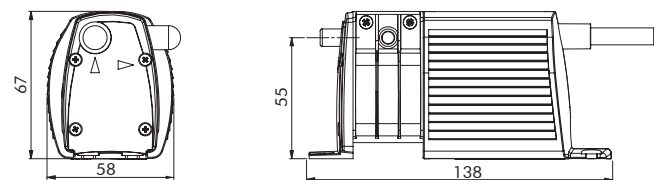


\*8 KW MAX

## PERFORMANCE



## DIMENSIONS (MM)



V (VERTICAL)	H (HORIZONTAL)
8 M	0 M
7 M	3 M
6 M	6 M
5 M	9 M
4 M	12 M
3 M	15 M
2 M	18 M
1 M	21 M

The MINIBLUE® can be mounted in any orientation up to 5m away from the A.C unit.