



SIPP NODE

500

2000

5000



DESCRIPTION - SIPP™

SIPP™ is the collective name of a number of control instruments which ensure that transformer oil does not enter the environment. SIPP detects oil leakage from the transformer, checks that the oil catch pit is sealed and ensures that there is always room in the pit for all transformer oil in the event of a breakdown.

SIPP™ is available as both mobile and stationary control equipment, and has been developed in close cooperation with Vattenfall, E.ON, Ellevio and Göteborg Energi. SIPP is currently the market leader on the Swedish market. With SIPP, we are helping more than a hundred electricity grid owners in nine countries to check and ensure that no cooling oil from the transformer enters the environment.

FUNCTION - SIPP Node

SIPP Node is a stationary control instrument which automatically ensures that no transformer oil enters the environment. When connected, SIPP Node is monitored 24 hours a day, 365 days a year, and automatically issues an alarm when oil leakage is detected. All activities and alarms are stored to ensure traceability.

SPECIFICATION

	SIPP Node 500	SIPP Node 2000	SIPP Node 5000
Capacity	50 m ³ /year	200 m ³ /year	500 m ³ /year
Measuring range (oil)	0-20 ppm		
Measuring accuracy	± 1 ppm		
Oil types	Mineral and synthetic		
Temp. range	-40° to +35° (when working)		
Temp. range	-15° to +60° (when in storage)		
Power supply	16A-T/10A-D 230 VAC 1-phase		
Power consumption	Max 500 W	Max 1000 W	Max 1200 W
Pump dimension	-	526x128 Ø mm	541x128 Ø mm
Pump height	5 metres	18 metres	18 metres
Pump flow (max.)	5 l/min	4.5 m ³ /h	6 m ³ /h
Pump flow (nom.)	4.3 l/min	4 m ³ /h	5.5 m ³ /h
Pump weight	-	13.5 kg	14.5 kg
Weight, cabinet	19 kg	22 kg	25 kg
Dimensions	884 x 432 x 206 mm	760 x 760 x 206 mm	800 x 760 x 300 mm
Material, cabinet	Aluminium RAL 5022	Aluminium RAL 5022	Aluminium RAL 5022
Optional extras	Stainless steel cabinet	Stainless steel cabinet	Stainless steel cabinet
Heater (capacity)	400 W	400 W	400 W
Heater (on/off °C)	+15°/+5°	+15°/+5°	+15°/+5°

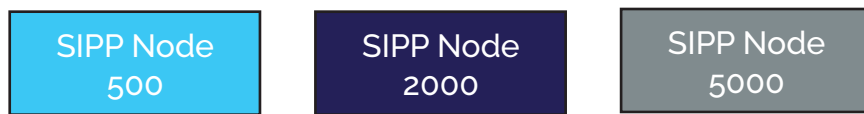
	SIPP Node 500	SIPP Node 2000	SIPP Node 5000
Level sensor measuring range	0-2 m	0-3 m	0-3 m
Level sensor cable length	-	5 m	5 m
Level sensor accuracy	0.5%	0.5%	0.5%
Suction unit weight	3.3 kg	-	-
Suction unit dim.	600x88 Ø(max) mm	-	-
Suction unit dim., outer hose	2600x34 Ø mm	-	-
Included hose	2 m red & green, 3 m grey	2x10 m	2x10 m
Hose dimension	6/8 mm	25/34 mm	25/34 mm
Hose material	Polyurethane	PVC	PVC
IP class (Control and connection box)	IP65	IP65	IP65

APPROVALS


DISCHARGE CAPACITY, RAINWATER

The table below gives an indication of which SIPP Node you should select, depending on the size of the collection area under the transformer and the precipitation range in the area in question (see SMHI for statistics).

However, more parameters are often taken into account when selecting size, so please contact us to discuss the matter!



Precipitation, average/year (mm)

Discharge volume, rainwater/year (m³)

2000	20	40	60	100	140	180	220	300	340
	15	30	45	75	105	135	165	225	255
	14	28	42	70	98	126	154	210	238
1300	13	26	39	65	91	117	143	195	221
	12	24	36	60	84	108	132	180	204
	11	22	33	55	77	99	121	165	187
900	10	20	30	50	70*	90*	110*	150	170
	9	18	27	45	63*	81*	99*	135	153
	8	16	24	40	56*	72*	88*	120	136
	7	14	21	35	49*	63*	77*	105	119
	6	12	18	30	42	54*	65*	90	102
500	5	10	15	25	35	45*	55*	75	85
	10	50	90	110	170				

Approx. area of collection area under the transformer (m²)

* Please contact us to discuss the appropriate SIPP Node