

Water-cooled transformer & chokes

Type 3LT-AFWF

Noratel introduces a whole new range of transformers with water-cooled enclosure solutions for distribution and converter transformers, both low- and medium voltage. The AFWF design is based on well proven technology, Noratel emphasis on a high degree of customization for flexible mechanical solutions and ease of installation "on site".

The AFWF design transport heat loss effectively away from the transformer and the surroundings so that a stable ambient temperature is obtained regardless of the location / season.

AFWF design also reduces cooling power requirement from ambient temperature.

Application:

Typical applications will be shipbuilding, offshore and process industries where there are requirements for low cooling effect from ambient temperature.

Technical details:

- Designed in accordance to IEC60726 and IEC60076 standards - CE-marked
- Insulation class F/H
- Low noise level
- Standard power ratings from 400 kVA to 5000 kVA, other sizes on request
- Voltage range up to 12 kV
- AFWF design
- Freshwater cooler (maximum 38°C on supplied water)
- Leakage guard, water meter and PT100 sensors in transformer and capsule air
- Cable entry from bottom or customized
- Effective fan driven radiator cooling - up to 30% more power
- Radiator coolers with single or double cooling tubes
- Operating voltage for internal use are taken from main transformer or integral control power transformer
- Design based on 5 standard capsule sizes

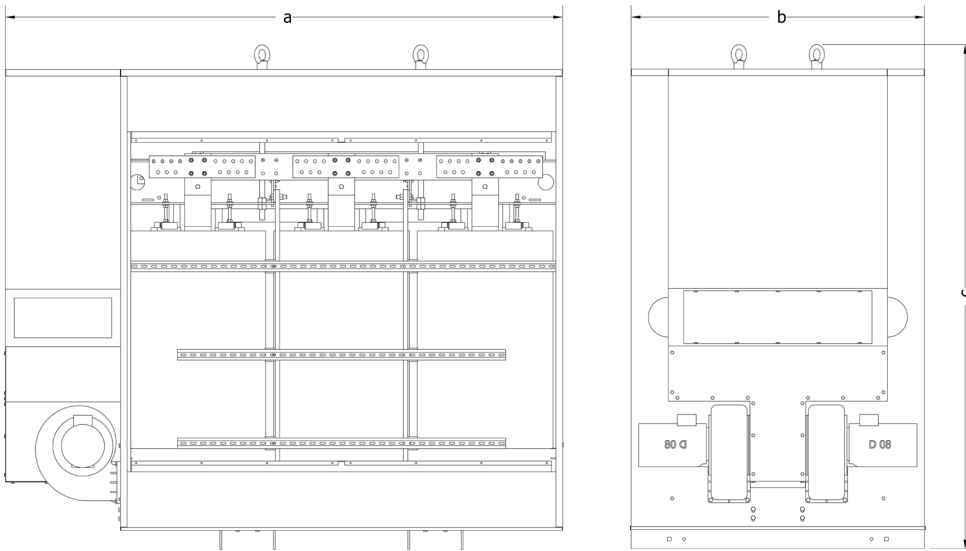


Water cooled chokes

Noratel also introduces a program of direct water-cooled chokes with a design based on water-cooled aluminum cooling elements in the windings.



Dimensions



Type	Max power (KVA)	a (mm)	b (mm)	c (mm)	Weight (kg)	Voltage (V)
3LT400AFWF	540	2070	1010	1600	1400	100-1000
3LT630AFWF	900	2070	1010	1600	1900	100-1000
3LT800AFWF	1100	2000	1325	1800	2100	100-1000
3LT1000AFWF	1400	2000	1325	1800	2600	100-1000
3LT1250AFWF	1700	2000	1325	1800	3100	100-1000
3LT1600AFWF	2100	2500	1325	2100	3500	100-1000
3LT2000AFWF	2500	2500	1325	2100	4100	100-1000
3LT2500AFWF	3150	2500	1325	2100	5500	100-1000
3LT3150AFWF	4000	3000	1325	2400	7000	100-1000
3LT4000AFWF	5000	3000	1325	2400	8500	100-1000
I2-pulse						
3LT400DSAFWF	540	2070	1010	1600	1500	100-1000
3LT630DSAFWF	900	2070	1010	1600	2050	100-1000
3LT800DSAFWF	1100	2000	1325	1800	2300	100-1000
3LT1000DSAFWF	1400	2000	1325	1800	2900	100-1000
3LT1250DSAFWF	1700	2000	1325	1800	3400	100-1000
3LT1600DSAFWF	2100	2500	1325	2100	3800	100-1000
3LT2000DSAFWF	2500	2500	1325	2100	4500	100-1000
3LT2500DSAFWF	3150	2500	1325	2100	5900	100-1000
3LT3150DSAFWF	4000	3000	1325	2400	7500	100-1000
3LT4000DSAFWF	5000	3000	1325	2400	9100	100-1000

Data for guidance - Noratel reserve the right to make technical changes