

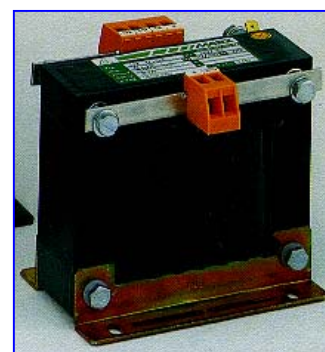
## ST / STH -Transformer

The transformers of the ST / STH series are designed to provide electrical energy supply for one single humidifier. They are equipped with primary and secondary fuses. They transform the system voltage of 230V 50Hz to 48/53V. Model STH comes with transformer housing and illuminated ON/OFF mains switch.

### Description

Single-phase control transformers as per VDE 0550 part 1 & 3, as per VDE 0113, class T40E insulation, separate windings, mounted vertically on base angle supports, protection system IP00, class 1 protection, screw connection (as per VBG4), 50/60Hz.

primary: 230V,  $\pm 5\%$  + fuse  
secondary: 48/53V + fuse



### Delivery range

to be built in a switch cabinet

type	Art. no	power VA	primary voltage V	secondary voltage V/Hz	primary fuse	secondary fuse
<b>ST75</b>	7700102	75	230/50	48/53	yes	yes
<b>ST160</b>	7700104	160	230/50	48/53	yes	yes
<b>ST200</b>	7700106	200	230/50	48/53	yes	yes
<b>ST250</b>	7700108	250	230/50	48/53	yes	yes
<b>ST320</b>	7700110	320	230/50	48/53	yes	yes
<b>ST400</b>	7700112	400	230/50	48/53	yes	yes
<b>ST500</b>	7700114	500	230/50	48/53	yes	yes
<b>ST800</b>	7700115	800	230/50	48/53	yes	yes
<b>ST1000</b>	7701000	1000	230/50	48/53	yes	yes
<b>ST1300</b>	7700116	1300	230/50	48/53	yes	yes
<b>ST1600</b>	7700117	1600	230/50	48/53	yes	yes

with transformer housing and illuminated ON/OFF switch

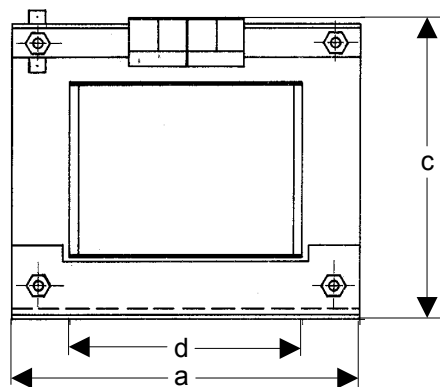
Model	Art. no.	power VA	primary voltage V	secondary voltage V/Hz	primary fuse	secondary fuse
<b>STH75</b>	7700202	75	230/50	48/53	yes	yes
<b>STH160</b>	7700204	160	230/50	48/53	yes	yes
<b>STH200</b>	7700206	200	230/50	48/53	yes	yes
<b>STH250</b>	7700208	250	230/50	48/53	yes	yes
<b>STH320</b>	7700210	320	230/50	48/53	yes	yes
<b>STH400</b>	7700212	400	230/50	48/53	yes	yes
<b>STH500</b>	7700214	500	230/50	48/53	yes	yes
<b>STH800</b>	7700215	800	230/50	48/53	yes	yes
<b>STH1000</b>	7701001	1000	230/50	48/53	yes	yes
<b>STH1300</b>	7700216	1300	230/50	48/53	yes	yes
<b>STH1600</b>	7700217	1600	230/50	48/53	yes	yes

## Dimension ST / STH

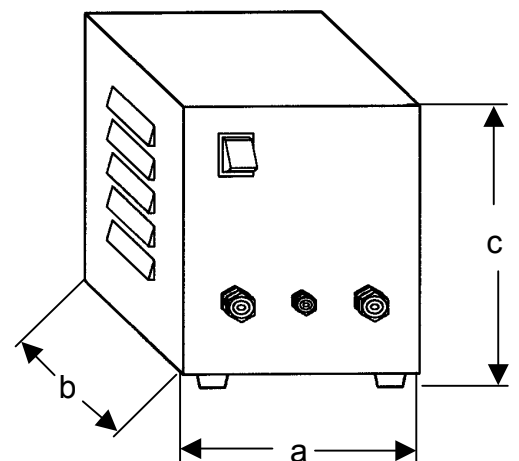
type	Art. no	power KVA	a mm	b mm	c mm	d mm	e mm	f mm	weight kg
<b>ST75</b>	7700102	0.075	84	94	80	64	47	4,8	1,5
<b>ST160</b>	7700104	0.160	105	102	96	84	62	5,8	3,0
<b>ST200</b>	7700106	0.200	105	110	96	84	70	5,8	3,5
<b>ST250</b>	7700108	0.250	105	124	96	84	85	5,8	4,5
<b>ST320</b>	7700110	0.320	120	105	106	90	70	5,8	4,3
<b>ST400</b>	7700112	0.400	120	120	106	90	84	5,8	5,8
<b>ST500</b>	7700114	0.500	120	130	106	90	102	5,8	6,8
<b>ST800</b>	7700115	0.800	150	135	142	122	101	7	10,2
<b>ST1000</b>	7701000	1.000	150	165	142	122	127	7	13,4
<b>ST1300</b>	7700116	1.300	174	150	166	135	106	7	15,7
<b>ST1600</b>	7700117	1.600	174	180	166	135	136	7	21

type	Art. no	power KVA	a mm	b mm	*b1 mm	c mm	PG	housing colour	weight kg
<b>STH75</b>	7700202	0.075	163	200	230	210	11	RAL 7032	3,7
<b>STH160</b>	7700204	0.160	163	200	230	210	11	pebble-grey	5,2
<b>STH200</b>	7700206	0.200	163	200	230	210	11		5,7
<b>STH250</b>	7700208	0.250	163	200	230	210	11		6,7
<b>STH320</b>	7700210	0.320	163	200	230	210	11		6,5
<b>STH400</b>	7700212	0.400	163	200	230	210	11		8,0
<b>STH500</b>	7700214	0.500	163	200	230	210	11		9,0
<b>STH800</b>	7700215	0.800	255	355	385	314	13		16,7
<b>STH1000</b>	7701001	1.000	255	355	385	314	13		19,9
<b>STH1300</b>	7700216	1.300	255	355	385	314	13		22,2
<b>STH1600</b>	7700217	1.600	255	355	385	314	13		27,5

\*= PG screwing included



type ST



type STH

## Technical data

type	power KVA	shock power short-time power factor cos $\varphi$ 0,5 KVA.	stand-by loss ca. VA	voltage drop ca. %	capacity ca. %
ST75	0.075	0,17	6	10	84
ST160	0.160	0,41	9	7	88
ST200	0.200	0,51	11	7	89
ST250	0.250	0,68	13	6,3	89
ST320	0.320	0,85	12	6,2	91
ST400	0.400	1,1	13	5,9	91
ST500	0.500	1,5	16	5	92
ST800	0.800	2,4	21	4,3	93
ST1000	1.000	3,3	26	3,7	94
ST1300	1.300	4,0	32	3,4	94
ST1600	1.600	5,7	38	2,9	95

## Fuse rating

type	primary		secondary	
	ST	SW	ST	SW
ST75	5x20 glass tube	0,63A sluggish	5x20 glass tube	1,40A sluggish
ST160	5x20 glass tube	1,25A sluggish	5x20 glass tube	3,15A sluggish
ST200	5x20 glass tube	1,60A sluggish	5x20 glass tube	4,00A sluggish
ST250	5x20 glass tube	2,00A sluggish	5x20 glass tube	5,00A sluggish
ST320	5x20 glass tube	2,50A sluggish	5x20 glass tube	6,30A sluggish
ST400	5x20 glass tube	3,15A sluggish	6,3x32 glass tube	8,00A sluggish
ST500	5x20 glass tube	4,00A sluggish	6,3x32 glass tube	10,0A sluggish
ST800	5x20 glass tube	6,30A sluggish	Neozed D01	16,0A
ST1000	6,3x32 glass tube	8,00A sluggish	Neozed D02	20,0A
ST1300	6,3x32 glass tube	10,0A sluggish	Neozed D02	25,0A
ST1600	Neozed D01	16,0A	Neozed D02	35,0A

ST= fuse type

SW= fuse rating

Neozed is an internationally used material for fuse links. The fuse steps are D01, D02 and D03. This corresponds to fuse values of 2A – 100A.

## Dimensioning

Dimensioning of the transformer is not only determined by the sum of electrical power consumption of the humidifiers at 48V, but also by the ohmic resistance of the cable supply lines. This is why the distance between the transformer and the humidifier should be as small as possible.

The power reserve of the transformer should be approx. 15%.