



# Reliable to the farthest corner

## DTS, DTI and DTT Cooling unit series

In addition to quality, function and performance, we have also taken into account the subject of 'service-friendliness' while developing our cooling units.

The trouble-free running of your process controller is always at the centre of attention in the realisation phase of our products, as well as optimised energy consumption and usage of materials and time.

The DTI and DTS series are two extraordinary cooling unit product lines available to you. These satisfy all requirements for partially recessed (DTI) and side mounted (DTS) installation for every size of enclosure.

Furthermore, an absolute world innovation: DTT. The top mounted cooling units offer unique security through the innovative, patented condensate management system and it is installable in the most limited of spaces.

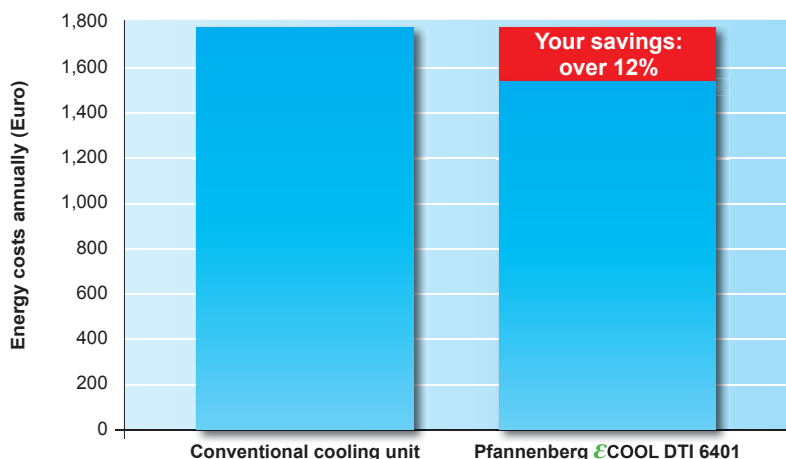
# Effective Cost Savings with Pfannenberg

## ECOOL Cooling Units



Take a small business with 5 cooling units, which works in two shifts as an example. In comparison to the ECOOL DTI 6401 with a 2000 W cooling capacity and a comparable unit available on the market.

### Energy savings comparison: Savings of over 12%



The ECOOL DTI 6401 saves 12% in energy costs in comparison to conventional cooling units.

#### Basic parameter for energy comparison:

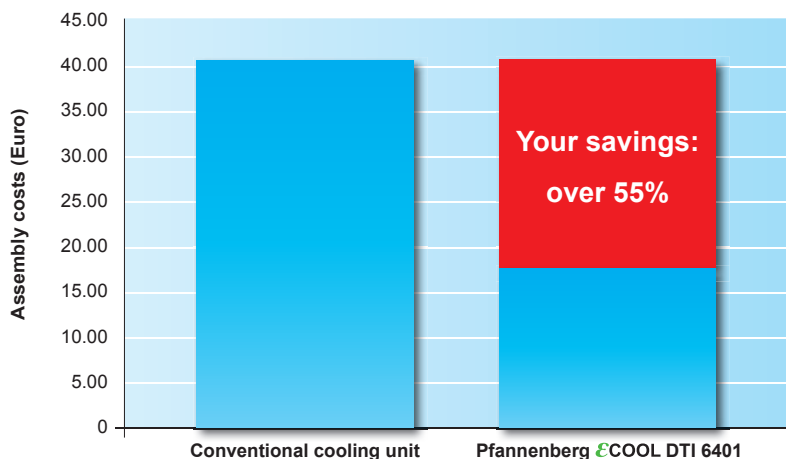
Uptime at full performance	70%
Uptime at partial performance	30%
Total uptime per day	16 hrs
Total uptime per year	240 days
Electricity price in Germany*	0.1412 €/kWh*
Number of units	5
Cooling capacity	2000 W

\*Ø electricity price 2009 according to BDEW

#### Energy costs

Conventional cooling units	EUR 1780.35 annually
ECOOL DTI 6401	EUR 1557.00 annually
<b>Your savings</b>	<b>EUR 223.35 € annually</b>

### Assembly cost comparison: Savings of over 55%



Another large potential for savings is the reduction of service and assembly time (MTTR).

#### Assembly and service times (MTTR) [min]

	conventional cooling units	ECOOL DTI 6401
Assembly	25	3
External fan change	6	6
Internal fan change	6	6
Fuse replacement	8	1
Filter change	2	1
Control board change	15	10
<b>Total</b>	<b>62</b>	<b>27</b>

Calculated hourly wage of technician: EUR 40

#### Assembly costs

Conventional cooling units	EUR 41.33
ECOOL DTI 6401	EUR 18.00
<b>Your savings</b>	<b>EUR 23.33</b>

The ECOOL product family unites total savings potential in one unit.

# Easy Handling: perfect service-friendliness decreases routine costs

## Thought-out solutions for installation and service

From the cut-out compatibility to the flexible software solutions: Pfannenberg's **ECOOL** series takes excellent accessibility and simple maintenance into consideration.

- Large condenser fin spacing allow for longer maintenance periods, even without an additional Nano coating
- One mounting cut-out for 5 different performances
- Mounting possible by 1 man in a few minutes
- Simple accessibility to all the relevant components
- Plug & Play: fast component replacement
- Integration in established net-work possible
- Integrated condensate evaporation system



### Time-saving

Smart and efficient installation; the patented method of rapid fixing - without tools. Don't just take our word for it! See our video demonstration on the web. Follow the „single-handed installation“ at [www.pfannenberg.com](http://www.pfannenberg.com) to see how you can save time and money.



### Easy mounting

Pfannenberg offers cooling units with the largest possible cut-out compatibility in order to be able to provide a unit replacement with the least possible installation work. Intelligent mounting systems minimize work during unit installation and replacement.



### Safety

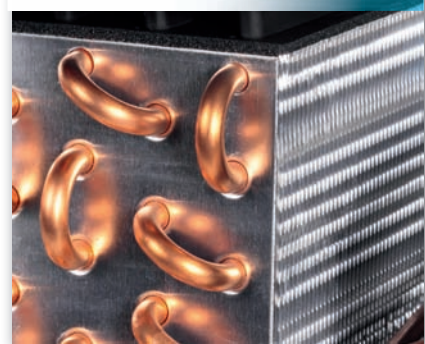
Pfannenberg's **ECOOL** series defines a safety standard, which has never been attained before due to its innovative and patented condensate management.



### Optional Multi Controller

The energy-saving mode will automatically control the internal fan based on heat dissipation inside the cabinet. This is possible by using an additional sensor. In the multi-master mode, up to 10 devices can be flexibly controlled from one controller. And to compliment the Multi Controller, Pfannenberg offers a **ECOOL-Plant** software, which enables remote communication between a laptop and the controller for programming, troubleshooting, performance readings, fault history and much more.

Large fin spacing



Perfect accessibility



Simple installation



Condensate evaporation system



## All cooling units at a glance

Type	Cooling capacity	Rated voltage	Dimensions (HxWxD)	Approvals					Page
				UR	UL	cUL	GOST	CE	
<b>Cooling units from the DTI and DTS series – cooling units in installation and surface mounting variants for side and door mounting</b>									
DTI 6801	4000 W	400 V 3~	1539 x 485 x 372 mm	●		●	●	●	20
DTS 6801			1549 x 485 x 372 mm						
DTI 6501	2500 W	230 V / 400 V 3~	1536 x 485 x 278 mm	●		●	●	●	22
DTS 6501			1543 x 485 x 278 mm						
DTI 6401	2000 W	115 V / 230 V / 400 V 3~	1536 x 485 x 278 mm	●		●	●	●	24
DTS 6401			1543 x 485 x 278 mm						
DTI 6301	1500 W	115 V / 230 V / 400 V 2~	1536 x 485 x 218 mm	●		●	●	●	26
DTS 6301			1539 x 485 x 218 mm						
DTI 6201	1000 W	115 V / 230 V / 400 V 2~	1536 x 485 x 218 mm	●		●	●	●	28
DTS 6201			1539 x 485 x 218 mm						
DTI 9141	950 W	115 V / 230 V / 400 V 2~	958 x 410 x 248 mm	●		●	●	●	30
DTS 9141			964x 410 x 248 mm						
DTI 9341C	1500 W	115 V / 230 V / 400 V 2~	958 x 410 x 248 mm	●		●	●	●	30
DTS 9341C			964 x 410 x 248 mm						
DTI 9041	870 W	115 V / 230 V / 400 V 2~	599 x 380 x 231/231/363 mm	●		●	●	●	32
DTS 9041			604 x 380 x 231/231/363 mm						
DTI 9031	510 W	115 V / 230 V / 400 V 2~	562 x 310 x 212/212/353 mm	●		●	●	●	34
DTS 9031			565 x 310 x 212/212/353 mm						
DTFI 9021	320 W	115 V / 230 V / 400 V 2~	326/326/464 x 385 x 252 mm	●		●	●	●	36
DTI 9021	320 W	115 V / 230 V	329 x 385 x 252 mm	●		●	●	●	36
DTS 9011H	300 W	115 V / 230 V	300 x 495 x 140 mm	●		●		●	38
DTS 7541	2500 W	400 V 3~	1350 x 397 x 270 mm	●		●	●	●	40
DTS 7441	2000 W	400 V 3~	1350 x 397 x 270 mm	●		●	●	●	40
DTS 7341	1500 W	115 V / 230 V / 400 V 2~ <sup>1</sup>	1350 x 390 x 200 mm	●		●	●	●	42
DTS 7241	1000 W	115 V / 230 V	1350 x 390 x 200 mm	●		●	●	●	42
<b>Cooling units from the DTS series – cooling units for side mounting in outdoor areas</b>									
DTS 3661/3681	5500 W	400 V 3~	1667 x 483 x 623 mm	●	● <sup>2</sup>	●	●	●	44
DTS 3561/3581	4000 W	400 V 3~	1502 x 483 x 534 mm	●	● <sup>2</sup>	●	●	●	46
DTS 3361/3381	2800 W	400 V 3~	1502 x 403 x 468 mm	●	● <sup>2</sup>	●	●	●	48
DTS 3265/3285	2900 W	230 V / 400 V 3~	1347 x 411 x 301 mm		●	●	●	●	50
DTS 3261/3281	2000 W	115 V / 230 V / 400 V 3~	1209 x 395 x 326 mm	●	● <sup>2</sup>	●	●	●	52
DTS 3165/3185	1600 W	230 V / 400 V 3~	914 x 305 x 302 mm		●	●	●	●	54
DTS 3161/3181	1100 W	115 V / 230 V / 400 V 2~	748 x 395 x 294 mm	●	● <sup>2</sup>	●	●	●	56
DTS 3061/3081	680 W	115 V / 230 V	512 x 256 x 274 mm		●	●	●	●	58

<sup>1</sup> variant without UL<sup>2</sup> only with LAP (Low Ambient Package)

● available

○ pending

# All cooling units at a glance

Type	Cooling capacity	Rated voltage	Dimensions (HxWxD)	Approvals					Page
				UR	UL	cUL	GOST	CE	
<b>High temperature cooling units from the DTS series – cooling units for side mounting in outdoor areas</b>									
DTS 3265 HT	2800 W	230 V	1209 x 395 x 326 mm		●	●		●	60
DTS 3165 HT	1600 W		914 x 305 x 302 mm		●	●		●	60
DTS 3061 HT	600 W		512 x 256 x 274 mm		●	●		●	60
<b>Roof-mounted cooling units from the DTT series – cooling units for top mounting</b>									
DTT 6801	4000 W	400 V 3~	485 x 795 x 575 mm	●		●	○	●	62
DTT 6601	3000 W	400 V 3~	485 x 795 x 575 mm	●		●	○	●	62
DTT 6401	2000 W	115 V / 230 V / 400 V 3~	435 x 595 x 495 mm	●		●	○	●	64
DTT 6301	1500 W	115 V / 230 V / 400 V 2~	435 x 595 x 495 mm	●		●	○	●	64
DTT 6201	1000 W	115 V / 230 V / 400 V 2~	435 x 595 x 395 mm	●		●	○	●	66
DTT 6101	500 W	115 V / 230 V	435 x 595 x 395 mm	●		●	○	●	66
<b>Peltier Cooling units</b>									
PTM 100	100 W	24 V DC	367 x 181 x 151 mm					●	68
PTM 150	150 W	24 V DC	495 x 181 x 151 mm					●	68
<b>Accessories</b>									
Pre-filter, aluminium									71
Filter kits for DTS 3xxx series									70
External condensate evaporation system		230 V							70
Condensate bottle									70
Cooling unit controller									70
ECOOL-Plant Software									70
Quick installation frame									71
Internal enclosure fan PEF 180		24 V DC / 115 V AC / 230 V AC							71
Air diverter internal									71
Air baffle internal									71

<sup>1</sup> variant without UL

● available  
○ pending



Further information can be found on the Internet:  
[www.pfannenberg.com](http://www.pfannenberg.com) · [www.pfannenberg-spareparts.com](http://www.pfannenberg-spareparts.com)  
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