Utek

indoor air quality and energy saving

TECHNICAL DATA

UNIT	CONTROL	ENERGETIC CLASS
BREVA-V 1	CTR-S	A
	EVO(D)-PH	A
	EVO(D)-PH + probe	A
BREVA-V 2	CTR-S	B
	EVO(D)-PH	B
	EVO(D)-PH + probe	A

BREVA-V

VENTILATION UNIT with HEAT RECOVERY for RESIDENTIAL BUILDINGS

BREVA-V
Double flow residential ventilation unit with high efficiency heat recovery.

PERFORMANCE

Equipped with an aluminum counter-current heat exchanger. The backward curved electronic fans allow to reach a maximum flow rate of approximately: 149 m³ / h (BREVA-V 1) and 279 m³ / h (BREVA-V 2). The standard By-pass allows you to take advantage of favorable climatic conditions outside the building for automatic free cooling (or free heating).

STRUCTURE

BREVA-V is made with a PPE structure, a material that ensures a high degree of thermal insulation towards the outside and between the air flows. Access to the filters ePM1 55% (ex F7) and ePM10 50% (ex G4) is particularly easy thanks to two special openings located on the inspection panel. BREVA-V is designed to be installed on the ceiling or floor inside buildings with ambient temperatures between 0 ° C and 45 ° C.

CONTROLS

For quick installation, BREVA-V is supplied complete with control system and connection to the power supply network; the version equipped with control is available: CTR-S, EVO-PH and EVOD-PH-IP. The latter is designed for complete integration into home automation systems (Modbus protocol with Ethernet connection or, on request, with the addition of the RS485 connection). The new version of our control systems allows the transition from one control system to another with extreme ease and speed, even after installation, with only the replacement of the remote panel.

The simplified CTR-S control allows you to select three speed levels for the fans or to stop them, automatically manages the by-pass and prevents frosting of the heat exchanger by managing the speed of the fans; warns the user of the need to replace the filters or the occurrence of an anomaly.

The EVO-PH control has a color backlit touch screen interface, gives an intuitive view of the operating status of the machine, allows precise adjustment of the fan speed and has a weekly time schedule for the automatic management of the fans. EVO-PH can be controlled by an external switch to activate the booster function; the latter can automatically adjust the air flow, if connected to an air quality probe, and can manage any post air treatment accessories (duct); moreover, it automatically manages the by-pass and prevents frosting of the heat exchanger by managing the speed of the fans or, if installed, an electric preheating resistance (optional accessory outside the unit); warns the user of the need to replace the filters (the clogging status of the filters is monitored by hour counter with factory calibration) or the onset of an anomaly, indicating its origin; manages the anti-ice. With the addition of optional accessories (COP Kit or CAV Kit, installed in the duct) it is possible to manage the ventilation machine in constant pressure or constant flow mode.

The EVOD-PH-IP control has the same features as the EVO-PH version, with the addition of the Modbus communication protocol which allows full control of the machine by the home automation system supervision software. The implemented webserver allows you to interact with the machine even with an internet browser of a device connected, even remotely, to the home automation network in which the machine itself is inserted.

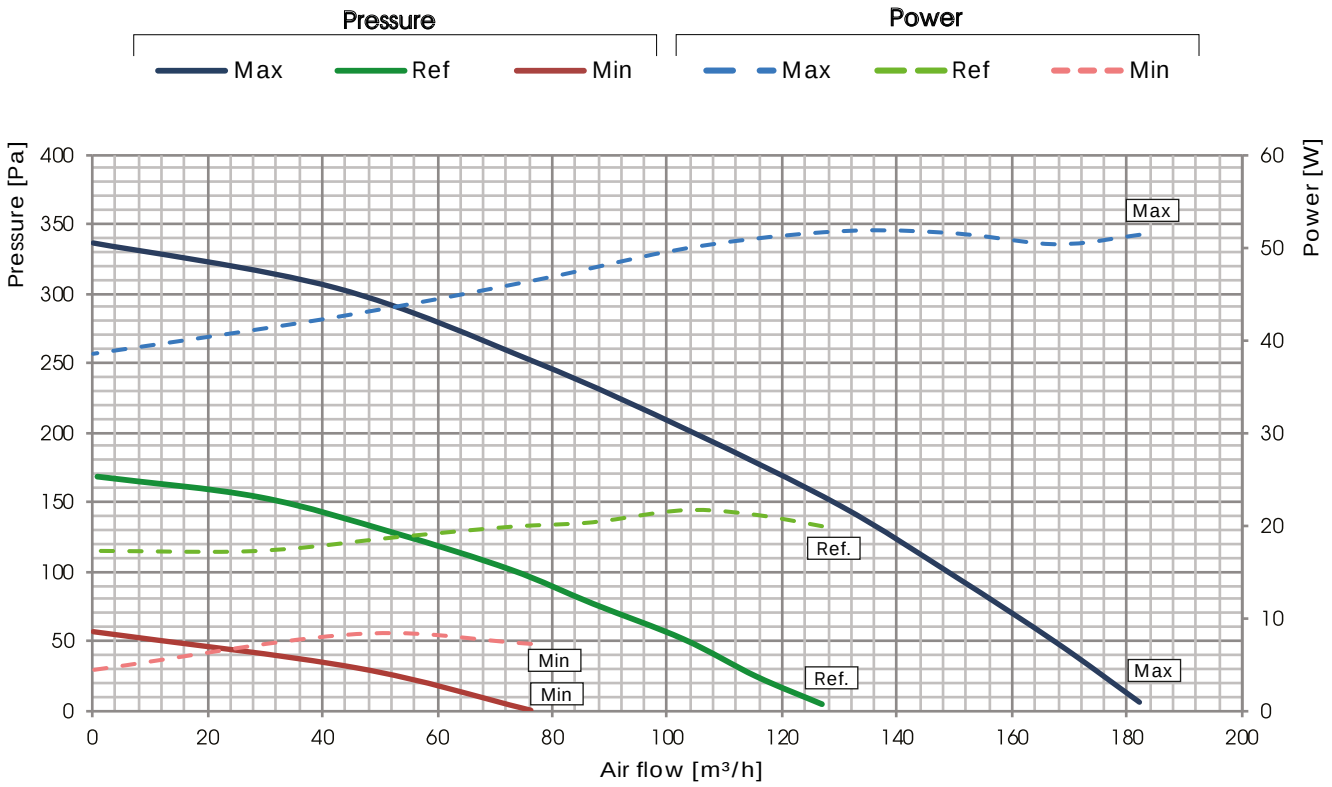
For a more complete view of the characteristics of the control systems, please refer to the respective manuals.

CONFIGURATION

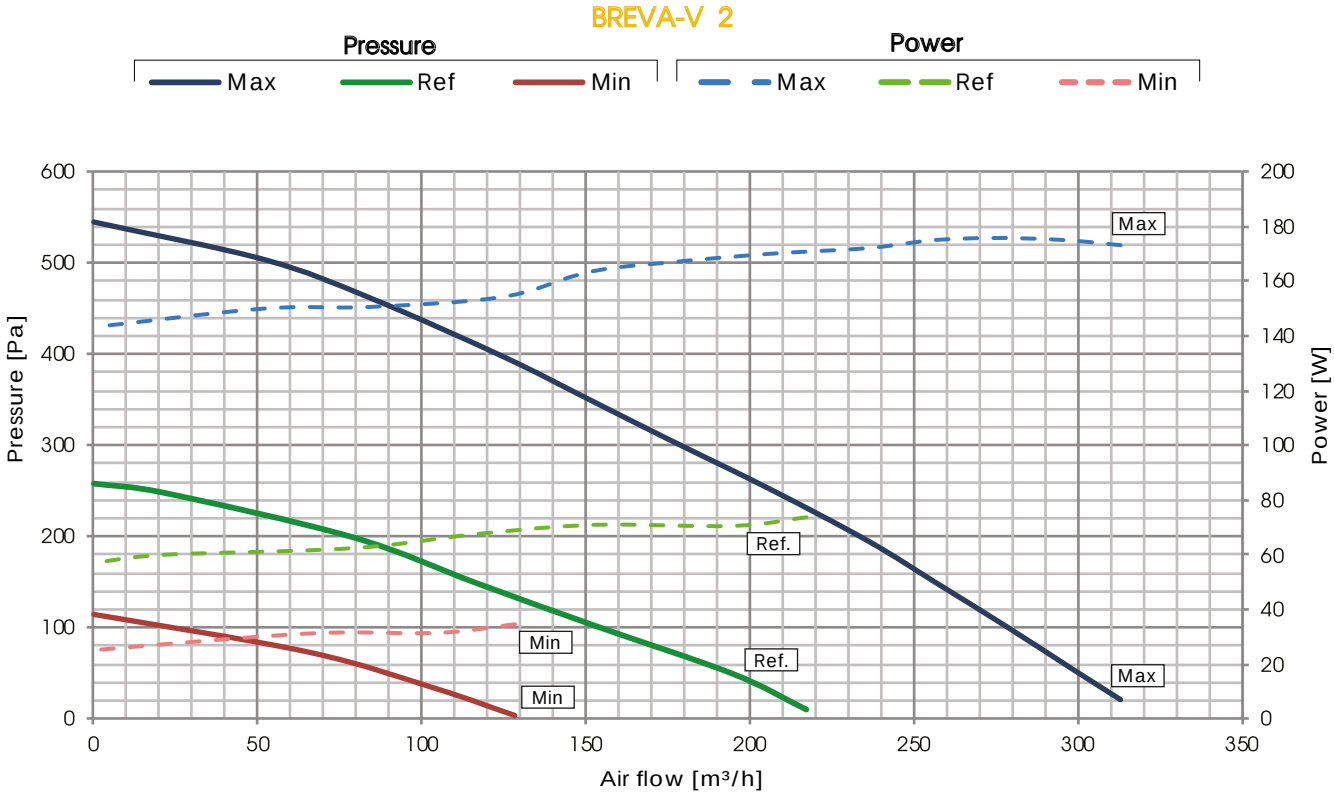
PERFORMANCES (UNI EN 13141-7)

The unit must be ducted properly: UTEK authorizes the use only according to its performance diagram shown into this catalogue
The declared performances are with CLEAN filters and guaranteed ONLY with the original filters UTEK low pressure drop.

BREVA-V 1

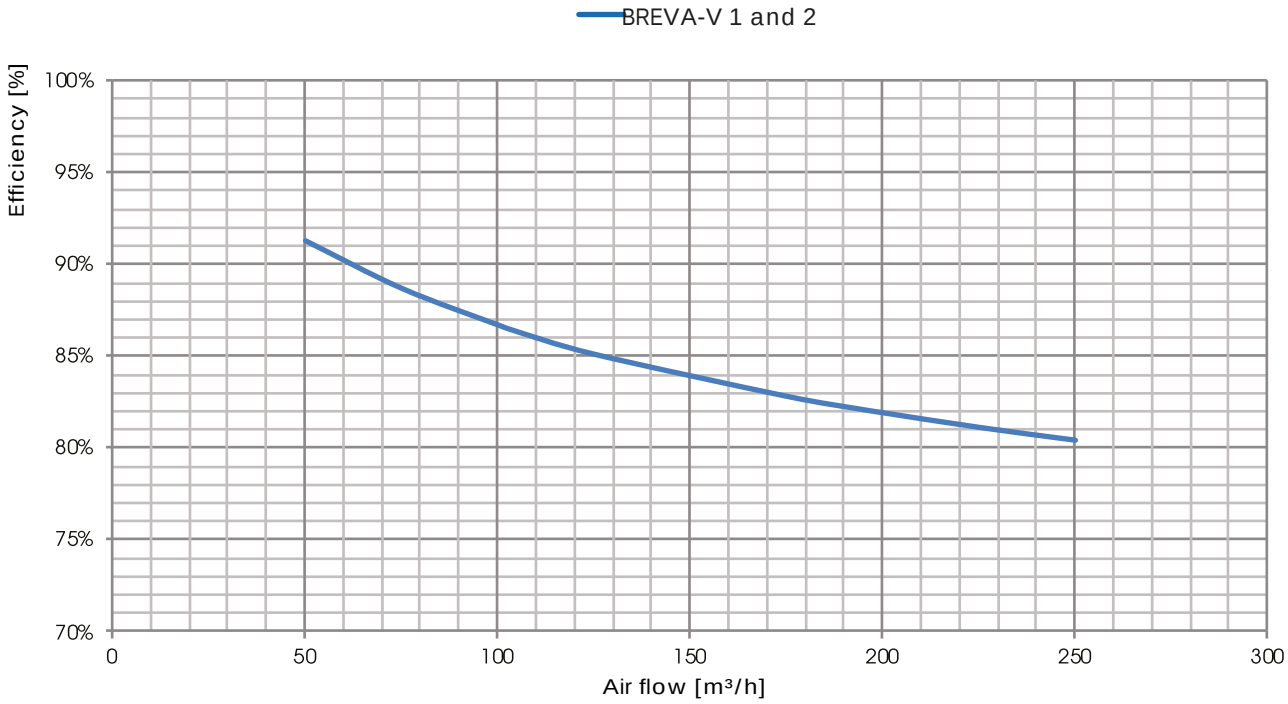


BREVA-V 2



HEAT RECOVERY PERFORMANCE (sensible efficiency)

Values refered to the following conditions (UNI EN 13141-7): Tbs external air 7°C; U.R. esternal 72%; Tbs enviorment 20°C; U.R. enviorment 38%



TEST LEAKAGE BREVA-V according UNI EN 13141-7

LEAKAGE	TEST CONDITIONS	BREVA-V 1 CLASS	BREVA-V 2 CLASS
OUTDOOR	Positive pression 250 Pa	A3	A2
OUTDOOR	Negative pression 250 Pa	A3	A3
INDOOR	Pressure difference100 Pa	A3	A2

NOISE LEVEL

Lw Sound power level taken in accordance to UNI EN ISO 3747 CLASS 3

	NOISE FROM THE CASE (dB)							
Unit **BREVA-V 1**	**125 Hz**	**250 Hz**	**500 Hz**	**1000 Hz**	**2000 Hz**	**4000 Hz**	**8000 Hz**	**L_w dB(A)**
MAX	49,8	55,1	53,6	50,2	41,6	39,4	41,5	54,8
REF	45,7	52,7	44,7	46,4	36,6	33,6	39,7	50,0

	NOISE IN THE DUCTS (dB)							
Unit **BREVA-V 1**	**125 Hz**	**250 Hz**	**500 Hz**	**1000 Hz**	**2000 Hz**	**4000 Hz**	**8000 Hz**	**L_w dB(A)**
MAX	55,2	61,8	60,6	56,8	50,4	53,5	54,5	62,8
REF	48,3	58,9	53,1	49,2	41,9	42,7	41,6	55,4

	NOISE FROM THE CASE (dB)							
Unit **BREVA-V 2**	**125 Hz**	**250 Hz**	**500 Hz**	**1000 Hz**	**2000 Hz**	**4000 Hz**	**8000 Hz**	**L_w dB(A)**
MAX	54,6	63,2	61,9	58,1	47,2	44,7	46,7	62,6
REF	47,7	59,1	52,7	51,4	40,3	36,2	40,6	55,6

	NOISE IN THE DUCTS (dB)							
Unit **BREVA-V 2**	**125 Hz**	**250 Hz**	**500 Hz**	**1000 Hz**	**2000 Hz**	**4000 Hz**	**8000 Hz**	**L_w dB(A)**
MAX	56,7	64,5	66,6	63,5	58,2	53,8	57,2	68,1
REF	49,5	62,8	58,7	56,3	50,5	43,8	47,6	61,0

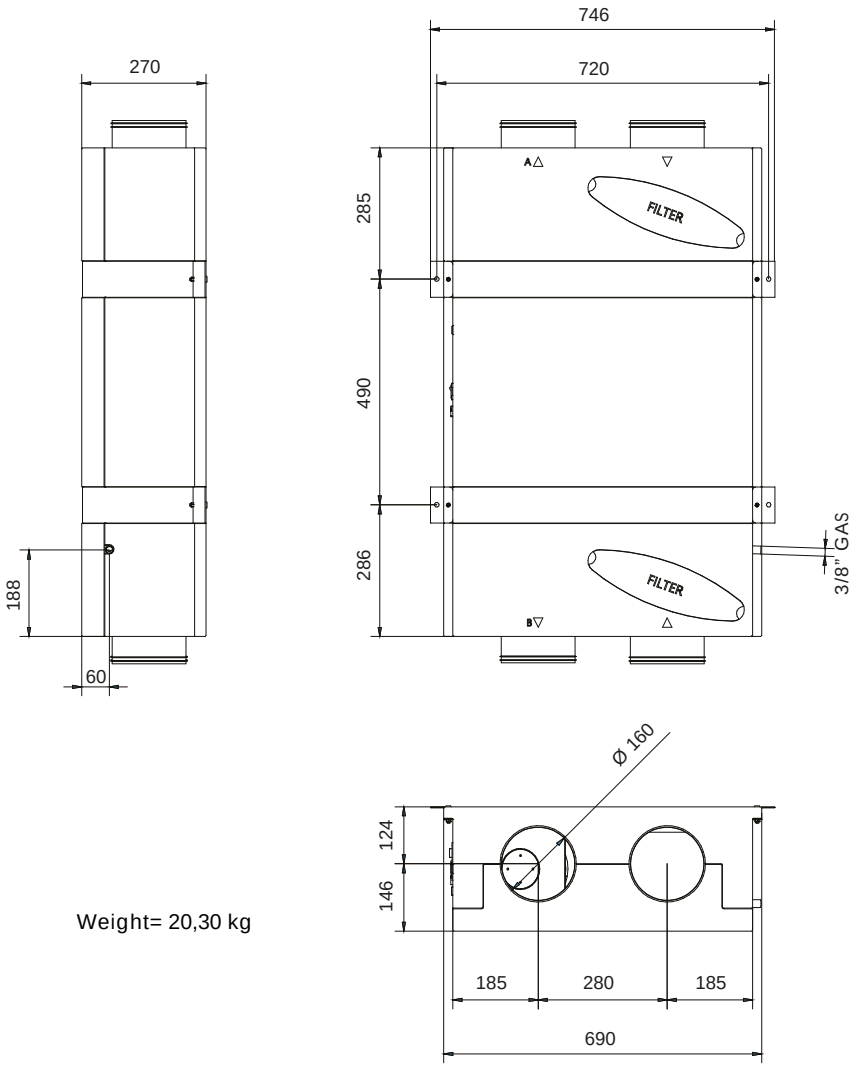
ELECTRICAL DATA

UNIT	FAN				UNIT BREVA-V	
	Power*[W]	Supply	Courrent max.[A]	Insulation class	Supply	Courrent max.[A]
BREVA-V 1	2 X 27	230 V, 50/60 Hz 1F	2 X 0,27	IP 44 class B	230 V, 50 Hz 1F	0,6
BREVA-V 2	2 X 85	230 V, 50/60 Hz 1F	2 X 0,75	IP 54 class B	230 V, 50 Hz 1F	1,6

(*) Fan data, it's referred to the global absorbed power graph of the machine in the working point

DIMENSIONS (mm) WEIGHT (kg)

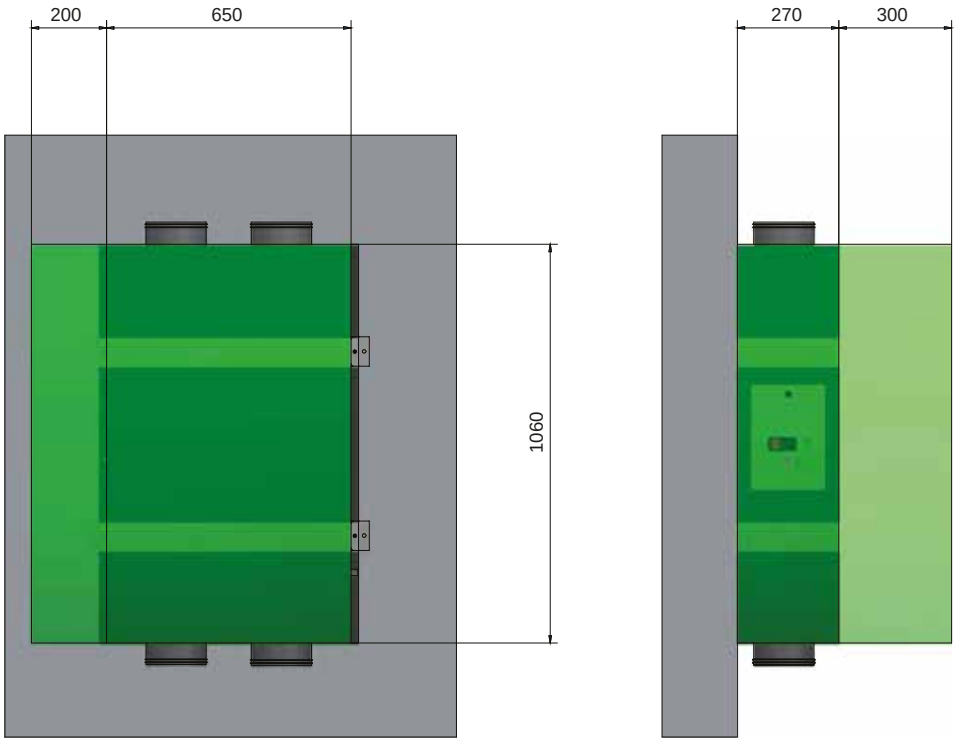
The case remains the same for both sizes



Weight= 20,30 kg

WALL INSTALLATION

Minimum required space for maintenance [mm]



A	Manufacturer's name C.L.A. S.r.l					
B	Manufacturer's model identifier		BREVA-V 1 CTR-S	BREVA-V 2 CTR-S	BREVA-V 1 EVO-PH SH	BREVA-V 2 EVO-PH SH
C	Specific energy consumption (SEC) [kWh/m².a]	FREDDO	-74,8	-67,6	-75,9	-69,2
		TEMPERATO	-13,4	-8,2	-14,2	-9,5
		CALDO	-37,4	-31,5	-38,3	-32,9
	SEC class		A	B	A	A
D	Declared typology		UVR - UVB	UVR - UVB	UVR - UVB	UVR - UVB
E	Type of drive installed		Variable speed	Variable speed	Variable speed	Variable speed
F	Type of heat recovery system		Recovery	Recovery	Recovery	Recovery
G	Thermal efficiency of heat recovery [%]		86,4	82,1	86,4	82,1
H	Maximum flow rate [m³/s]		0,041	0,078	0,041	0,078
I	Electrical power input at maximum flow rate [W]		51	176	51	176
I	Sound power level [Lwa][dB]		50	56	50	56
K	Reference flow rate [m³/s]		0,029	0,054	0,029	0,054
L	Reference pressure difference [Pa]		50	50	50	50
M	SPI [W/m³/h]		0,217	0,362	0,217	0,362
N	Control factor CLTR		1	1	0,95	0,95
	Control typology		Manual control (no DCV)	Manual control (no DCV)	Timer control (no DCV)	Timer control (no DCV)
O	Declared maximum internal / external leakage rates [%]		14,5 / 15,4	7,7 / 8,2	14,5 / 15,4	7,7 / 8,2
P	Mixing rate of non-ducted bidirectional ventilation units [%]		-	-	-	-
Q	Position and description of visual filter warning for RVUs intended for use with filters, including text pointing out the importance of regular filter changes for performance and energy efficiency of the unit		The filter alarm is signaled on the Control System display: the intermittent "Dirty Filters" message will appear. "To maintain the energy efficiency of the UVR, it is recommended to replace the filters when reported." The writing is positioned near the filter inspection.			
R	For unidirectional ventilation systems, instructions to install regulated supply/exhaust grilles in the façade for natural air supply/extraction					
S	Internet address for pre-/dis-assembly instructions		www.utek-air.it			
T	For non-ducted units only: the airflow sensitivity to pressure variations at + 20 Pa and – 20 Pa					
U	For non-ducted units only: the indoor/outdoor air tightness					
V	The annual electricity consumption (AEC) [kWh/a]		320	500	290	450
W	The annual heating saved (AHS) for each type of climate [kWh/a]		2020 (WARM)	1960 (WARM)	2030 (WARM)	1970 (WARM)
			8740 (COLD)	8470 (COLD)	8780 (COLD)	8530 (COLD)
			4470 (TEMPERATE)	4530 (TEMPERATE)	4490 (TEMPERATE)	4360 (TEMPERATE)

Gentile Cliente

Grazie per l'attenzione al prodotto UTEK, progettato e realizzato per garantire all'Utilizzatore valori reali: Qualità, Sicurezza e Risparmio sui consumi.

Made in Italy

AZIENDA CON SISTEMA DI GESTIONE QUALITÀ CERTIFICATO DA DNV GL
ISO 9001

AZIENDA CON SISTEMA DI GESTIONE AMBIENTALE CERTIFICATO DA DNV
ISO 14001

il Concessionario

BREVA-V_2021_0_IT