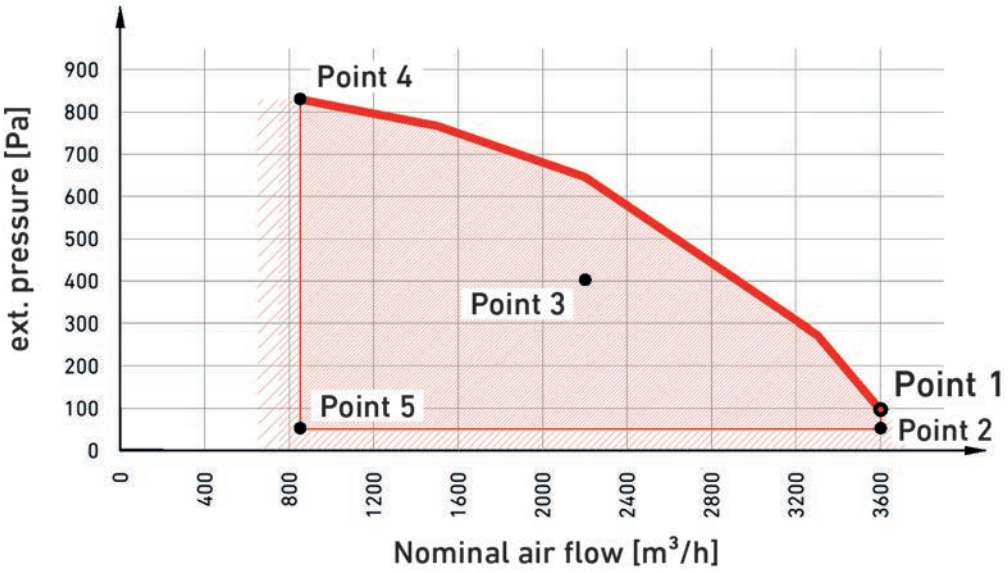
Product fiche System Ventech LG 3200

Model ID	PICHLER System Ventech LG 3200
Type	Two-way ventilation plant for non-residential use
Drive type	Speed control
Type of heat recovery *	Other heat recovery system counterflow heat exchanger

Area of application



The apparatus complies with the Eco-design Directive inside the cross-hatched area.
The diagram applies to the reference configuration (fans, filters, heat exchangers) without assemblies not for ventilation (e.g. heating coils, louvre flaps, etc.). Additional loss of pressure must be taken into account when installing assemblies not for ventilation.

Point 1			
Internal specific fan power	SVL_{int}	1153	[W/(m³/s)]
Thermal transmission	η_{t_nwla}	86,00%	[-]
Enclosure sound power level	L_{WA}	72	[dB(A)]
Nominal airflow	q_{nom}	1	[m³/s]
		3600	[m³/h]
actual electrical input power	$P_{el,ges}$	1,69	[kW]
Airflow speed	v_{nom}	1,96	[m/s]
Nominal outside pressure ZUL	$\Delta p_{s,ext\ ZUL}$	94	[Pa]
Nominal outside pressure ABL	$\Delta p_{s,ext\ ABL}$	94	[Pa]
Internal pressure drop across ventilation components, ZUL	$\Delta p_{s,int\ ZUL}$	380	[Pa]
Internal pressure drop across ventilation components, ABL	$\Delta p_{s,int\ ABL}$	313	[Pa]
Internal pressure drop across non-ventilation components, ZUL	$\Delta p_{s,add\ ZUL}$	0	[Pa]
Internal pressure drop across non-ventilation components, ABL	$\Delta p_{s,add\ ABL}$	0	[Pa]
Fan efficiency, ZUL, at nominal external pressure loss and internal pressure loss across ventilation components	$\eta_{fan\ ZUL}$	60,89	[%]
Fan efficiency, ABL, at nominal external pressure loss and internal pressure loss across ventilation components	$\eta_{fan\ ABL}$	59,23	[%]
External air leakage (at ±400 Pa)		< 1	[%]
Internal air leakage (at 250 Pa)		< 1	[%]
Energy class, ZUL-filter (F7) **		2100,4	[kWh]
Energy class, ABL-filter (G4) **		1294,1	[kWh]

ZUL = supply air
ABL = extract air

Point 2			
Internal specific fan power	SVL_{int}	1177	[W/(m³/s)]
Thermal transmission	η_{t_nwla}	86,00%	[-]
Enclosure sound power level	L_{WA}	68	[dB(A)]
Nominal airflow	q_{nom}	1	[m³/s]
		3600	[m³/h]
Nominal external pressure, ZUL	$\Delta p_{s,ext\ ZUL}$	50	[Pa]
Nominal external pressure, ABL	$\Delta p_{s,ext\ ABL}$	50	[Pa]
Point 3			
Internal specific fan power	SVL_{int}	972	[W/(m³/s)]
Thermal transmission	η_{t_nwla}	86,50%	[-]
Enclosure sound power level	L_{WA}	73	[dB(A)]
Nominal airflow	q_{nom}	0,917	[m³/s]
		2200	[m³/h]
Nominal external pressure, ZUL	$\Delta p_{s,ext\ ZUL}$	272	[Pa]
Nominal external pressure, ABL	$\Delta p_{s,ext\ ABL}$	272	[Pa]
Point 4			
Internal specific fan power	SVL_{int}	291	[W/(m³/s)]
Thermal transmission	η_{t_nwla}	92,00%	[-]
Enclosure sound power level	L_{WA}	74	[dB(A)]
Nominal airflow	q_{nom}	0,236	[m³/s]
		850	[m³/h]
Nominal external pressure, ZUL	$\Delta p_{s,ext\ ZUL}$	829	[Pa]
Nominal external pressure, ABL	$\Delta p_{s,ext\ ABL}$	829	[Pa]
Point 5			
Internal specific fan power	SVL_{int}	267	[W/(m³/s)]
Thermal transmission	η_{t_nwla}	92,00%	[-]
Enclosure sound power level	L_{WA}	65	[dB(A)]
Nominal airflow	q_{nom}	0,236	[m³/s]
		850	[m³/h]
Nominal outside pressure ZUL	$\Delta p_{s,ext\ ZUL}$	50	[Pa]
Nominal outside pressure ABL	$\Delta p_{s,ext\ ABL}$	50	[Pa]

The ventilation unit complies with Eco-design Directive (EU Regulation 1253/2014) as required for 2018.

Visual filter warning

The ventilation unit has a visual warning to replace the filter. An error message will be displayed on the control panel when the set pressure difference is exceeded.

WARNING: The plant will not work efficiently unless the filter is replaced regularly, causing power consumption to increase.

Disposal

Equipment that is no longer functional must be uninstalled by a specialist firm and properly disposed of at a suitable facility. The Electrical and Electronic Equipment Act (EAG-VO), implementing Community law Directives 202/95/EC (RoHS) and 2002/96/EC (WEEE Directive) applies.

* Types of heat recovery:	none
	Fluid circulation heat exchanger
	other heat recovery system

** The energy class is calculated based on the annual operating hours (8760 h) and average pressure loss (see table below for final pressure loss pursuant to ÖNORM EN 13053).

	Filter class	Final pressure difference
Max. pressure drop across filter pursuant to ÖNORM EN 13053:	G1-G4	150 Pa
	M5-F7	200 Pa
	F8 - F9	300 Pa

Information based on the current state of knowledge of EU Regulation 1253/2014
Download from: www.pichlerluft.at

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