

### C\_3.1.3. Determination of heating loads

ROOM TYPOLOGY	$Q_{OP}$	$n_s$	Area	$n_p$	Q	Q	Volume	n
Office	$[m^3/sm^2] * 10^{-3}$	[-]	$[m^2]$	[cad]	$[m^3/s]$	$[m^3/h]$	$[m^3]$	[ACH]
Values	11	0.12	11220	1346	14.806	53301.6	39270	1.357311

INTERMITTANCE FLUX	As	$f_{rh}$	n	$\Delta\theta$	$\phi_{int}$
	$[m^2]$	$[W/m^2]$	[h]	[K]	[W]
Values	10200	36	1	4	367200
				TOTAL $\phi_a$	367200.00
				$\phi_c/sup$	36.00

$H_v$	Q	$H_{v,e} = \rho * C_p * Q$	$H_{v,L}$
	$[m^3/h]$	[W/K]	[W/K]
Values	53301.6	18122.54	0.00

VENTILATION FLUX	H	$\vartheta_i^*$	$\vartheta_e^*$	$\phi_a$
	[W/K]	[°C]	[°C]	[W]
$H_{v,e}$	18122.5	20	-8	507431.23
			TOTAL $\phi_a$	507431.23
			$\phi_c/sup$	45.23