









Unit Type		39 03 01	39 05 01	39 06 01	39 10 01	39 13 01	39 16 01
Optimum flow rate	m <sup>3</sup> /h	2,600	3,900	4,000	6,000	7,900	9,800
Max. volume flow rate <sup>1</sup>	m <sup>3</sup> /h	3,500	5,300	6,300	9,500	10,500	14,000
Heat recovery efficiency <sup>2</sup>	%	84.9	84.9	85.7	85.8	85.9	86.1
Heat recovery efficiency acc. EN 308	%	52.1	52.1	60.5	60.5	60.6	60.6
Dehumidification capacity according to VDI 2089 V <sub>opt</sub>	kg/h	15.6	23.5	24.1	36.1	47.5	58.9
Dehumidification capacity according to VDI 2089 V <sub>max</sub> <sup>1</sup>	kg/h	21.0	31.9	36.2	57.2	63.1	84.1
Total electrical power rating <sup>3, 6</sup>	kW	3.6	4.6	4.5	6.6	8.0	9.7
Max. current consumption <sup>3</sup>	A	13.0	15.4	13.9	21.5	24.6	26.4
Operating voltage		3 / N / PE 400 V 50 Hz					
<b>Ext. pressure losses</b>							
Supply and fresh air channel	Pa	300	300	300	300	300	300
Return and exhaust air channel	Pa	300	300	300	300	300	300
<b>Sound power level</b>							
Acoustic pressure at a distance of 1 m from the unit <sup>4</sup>	dB(A)	57	59	50	53	54	58
<b>Fan units</b>							
Rated motor input for supply air (100%   60% volume flow rate) <sup>5</sup>	kW	0.94   0.60	1.31   0.86	1.22   0.71	1.79   0.98	2.33   1.21	2.76   1.55
Rated motor input for return air (100%   60% volume flow rate) <sup>5</sup>	kW	0.66   0.43	0.94   0.54	0.98   0.55	1.35   0.77	1.71   1.02	2.13   1.19
SFP category supply air   return air (60% V <sub>opt</sub> )		1   1	2   1	1   1	1   1	1   1	1   1
Nominal rating supply air   return air	kW	1.9   1.9	1.9   1.9	1.9   1.9	3.35   2.9	2.9   3.3	3.3   3.3
<b>Integrated heat pump</b>							
Refrigerant type <sup>6</sup>		R410A					
Heating capacity of heat pump <sup>7</sup>	COP	6.9	7.7	7.5	7.5	7.6	8.0
Rated compressor input for OA operation (60% V <sub>opt</sub> )	kW	1.3	1.5	1.5	2.3	2.6	3.1
Heating capacity of heat pump for OA operation (60% V <sub>opt</sub> )	kW	7.0	9.2	9.0	13.5	15.9	19.9
<b>Efficiency classes according to EN 13053:2012</b>							
Heat recovery class		H1	H1	H1	H1	H1	H1
Power consumption of fan motors SA   RA		P1   P1	P2   P1	P1   P1	P1   P1	P1   P1	P1   P1
Air velocity class		V1	V2	V1	V1	V1	V1
Eurovent energy efficiency class		A+	A+	A+	A+	A+	A+
<b>Filtration according to ISO 16890</b>							
Supply air   Outside air		ISO ePM1 55 % (F7)   ISO ePM10 60 % (M5)					
Return air		ISO ePM10 60 % (M5)					
<b>LPHW</b>							
Max. heating power <sup>7</sup>	kW	16.6	24.9	25.5	25.0	50.6	63.0
<b>Water flow rate and pressure losses</b>							
LPHW	m <sup>3</sup> /h   kPa	1.03   6.4	1.42   3.2	1.34   4.1	2.14   3.6	2.44   5.1	3.30   3.8
LPHW valve	m <sup>3</sup> /h   kPa	0.89   6.7	1.25   5.1	1.30   4.6	1.14   4.6	2.20   5.9	2.84   4.2
<b>Pool water condenser <sup>8, 9</sup></b>							
Heating capacity	kW	11.55	14.82	14.56	21.71	25.23	31.78
Spread of pool water temperature	K	6.6	8.0	7.8	7.8	7.0	7.2
Pool water volume flow rate	m <sup>3</sup> /h	1.5	1.6	1.6	2.4	3.1	3.8
Water side pressure loss	kPa	4.88	5.6	5.6	5.31	9.2	14.27
<b>Connections</b>							
LPHW connection	DN	32	32	32	32	40	40
LPHW control valve connection	DN	15	20	20	25	25	32
Condensate drainage	DN	50	50	50	50	50	50
Floor drain	DN	50	50	50	50	50	50
PWC connection <sup>8</sup>	DN	25	25	25	40	40	40

Specifications of technical data relate to the optimum flow rate and return air condition 30° C / 54% r.h., outside air condition 15° C / 84% r.h. and standard density (1.204 kg/m<sup>3</sup>), unless otherwise specified.

1 May require alteration of the technical equipment  
2 RA = 30° C / 54% r.h.; OA = -12° C / 90% r.h.; 1/3 OA rate

3 Depends on configuration of measurement and control system/unit

4 at 250 Hz mid-band frequency

5 with average filter contamination

6 at V<sub>opt</sub> = 100%

7 FL = 70° C; SA ≈ 50° C

8 Pool water condenser (supplementary equipment)

9 Heat emission full and proportional; when water enters 28° C

Please seek approval of technical data and specifications prior to start of the planning process.

## Technické specifikace a výkony

Unit type		39 19 01	39 25 01	39 32 01	39 36 01
Optimum flow rate	m <sup>3</sup> /h	11,800	15,800	19,900	23,100
Max. volume flow rate <sup>1</sup>	m <sup>3</sup> /h	18,000	22,500	25,900	35,100
Heat recovery efficiency <sup>2</sup>	%	86.0	86.3	86.2	86.3
Heat recovery efficiency acc. EN 308	%	60.6	64.4	64.1	64.1
Dehumidification capacity according to VDI 2089 V <sub>opt</sub>	kg/h	71.0	95.0	119.7	138.9
Dehumidification capacity according to VDI 2089 V <sub>max</sub> <sup>1</sup>	kg/h	108.3	135.3	155.8	211.1
Total electrical power rating <sup>3,6</sup>	kW	13.6	17.6	23.5	27.5
Max. current consumption <sup>3</sup>	A	37.0	51.4	64.8	69.7
Operating voltage		3 / N / PE 400 V 50 Hz			
<b>Ext. pressure losses</b>					
Supply and fresh air channel	Pa	400	400	500	500
Return and exhaust air channel	Pa	400	400	500	500
<b>Sound power level</b>					
Acoustic pressure at a distance of 1 m from the unit <sup>4</sup>	dB(A)	56	54	59	62
<b>Fan units</b>					
Rated motor input for supply air (100%   60% volume flow rate) <sup>5</sup>	kW	3.77   1.33	5.12   1.90	7.30   2.54	8.58   2.88
Rated motor input for return air (100%   60% volume flow rate) <sup>5</sup>	kW	3.06   0.99	4.20   1.36	6.14   1.96	7.26   2.31
SFP category supply air   return air (60% V <sub>opt</sub> )		1   1	1   1	1   1	1   1
Nominal rating supply air   return air	kW	5.0   5.0	2x 3.3   2x 3.3	2x 5.0   2x 5.0	2x 5.7   3x 3.3
<b>Integrated heat pump</b>					
Refrigerant type		R410A			
Heating capacity of heat pump <sup>6</sup>	COP	7.5	7.8	6.9	7.0
Rated compressor input for OA operation (60% V <sub>opt</sub> )	kW	4.4	5.4	6.5	7.5
Heating capacity of heat pump for OA operation (60% V <sub>opt</sub> )	kW	26.4	34.0	40.8	48.2
<b>Efficiency classes according to EN 13053:2012</b>					
Heat recovery class		H1	H1	H1	H1
Power consumption of fan motors SA   RA		P1   P1	P1   P1	P1   P1	P1   P1
Air velocity class		V1	V2	V2	V2
Eurovent energy efficiency class		A+	A+	A+	A+
<b>Filtration according to ISO 16890</b>					
Supply air   Outside air		ISO ePM1 55 % (F7)   ISO ePM10 60 % (M5)			
Return air		ISO ePM10 60 % (M5)			
<b>LPHW</b>					
Max. heating capacity <sup>7</sup>	kW	75.3	101.0	126.8	146.7
<b>Water flow rate and pressure losses</b>					
LPHW	m <sup>3</sup> /h   kPa	3.47   4.8	5.68   3.3	7.24   3.8	7.29   3.3
LPHW valve	m <sup>3</sup> /h   kPa	3.14   7.7	4.53   5.2	5.71   5.3	6.20   3.3
<b>Pool water condenser<sup>8,9</sup></b>					
Heating capacity	kW	43.6	55.2	65.9	79.3
Spread of pool water temperature	K	7.7	8.6	9.1	7.9
Pool water volume flow rate	m <sup>3</sup> /h	4.9	5.5	6.2	8.6
Water side pressure loss	kPa	4.28	5.53	7.20	4.53
<b>Connections</b>					
LPHW connection	DN	40	50	50	65
LPHW control valve connection	DN	32	40	40	40
Condensate drainage	DN	50	50	50	50
Floor drain	DN	50	50	50	50
PWC connection <sup>8</sup>	DN	50	50	50	50

Specifikace technických údajů se týká optimálního objemového průtoku a stavu odváděného vzduchu 30 ° C / 54% r.v., venkovní teplota 15 ° C / 84% r.v. a standardní hustota (1,204 kg / m<sup>3</sup>), pokud není uvedeno jinak.

1 Na základě stavu odsávaného vzduchu; Může vyžadovat změny technického vybavení

2 AB = 30° C / 54% r.h.; AU = -12° C / 90% r.v.; 1/3 AU podíl  
3 Závisí na konfiguraci měření a regulace systému/ jednotky  
4 Při frekvenci 250 Hz ve středním pásmu  
5 S průměrnou kontaminací filtru  
6 Při V<sub>opt</sub> = 100%  
7 Prívodní voda = 70° C; ZU ≈ 50° C

8 Kondenzátor bazénové vody (volitelné vybavení)  
9 Emise tepla plně a proporcionálně; když voda dosáhne 28 ° C

**Před zahájením procesu plánování si vyžádejte schválení technických údajů a specifikací.**