RH 50%	RH 65%	RH 75%	RH 80%	RH 90%
p1*x^2+ p2*x+ p3	p1*x^2+ p2*x+ p3	p1*x^2+ p2*x+ p3	p1*x^2+ p2*x+ p3	p5*x + p6
Coefficients	Coefficients	Coefficients	Coefficients:	Coefficients
p1 = -2.407e-07	p1 = -6.691e-08	p1 = -9.312e-07	p1 = -1.073e-06	p5 = 0.0004141
p2 = 2.001e-05	p2 = 2.637e-05	p2 = 6.175e-05	p2 = 0.0001598	p6 = -8.106e-05
p3 = 1.386e-05	p3 = 4.225e-05	p3 = 3.729e-05	p3 = 4.724e-05	
Goodness of fit:	Goodness of fit:	Goodness of fit:	Goodness of fit:	Goodness of fit:
R-square: 0.9626	R-square: 0.9795	R-square: 0.9796	R-square: 0.9874	R-square: 0.985

Table S1. Curve fitting models for CO₂. The parameters of the fitting curves put in evidence the different contribution of the linear and no-linear terms of the curve. The R-square give an account of the goodness of each fitting option.

Table S2. Curve fitting models for O₂. The parameters of the fitting curves put in evidence the different contribution of the linear and no-linear terms of the curve. The R-square give an account of the goodness of each fitting option.

RH 50%	RH 65%	RH 75%	RH 80%
p1*x^2 + p2*x + p3			
Coefficients:	Coefficients:	Coefficients:	Coefficients :
p1 = -4.571e-08	p1 = -1.19e-07	p1 = -8.538e-08	p1 = -1.291e-06
p2 = 9.525e-06	p2 = 1.579e-05	p2 = 3.595e-05	p2 = 8.111e-05
p3 = 6.732e-06	p3 = 6.368e-06	p3 = 2.377e-05	p3 = 2.247e-05
Goodness of fit:	Goodness of fit:	Goodness of fit:	Goodness of fit:
R-square: 0.8937	R-square: 0.9486	R-square: 0.9627	R-square: 0.9715