

ANALYTICAL s.n.c.

Inserito negli elenchi del Ministero della Sanità

LABORATORIO DI ANALISI CHIMICHE e MICROBIOLOGICHE

Laboratorio: vicolo S.Clemente, 3- 43043 Borgotaro(PR)-Tel/fax 0525 96848

SR07PR rev.0 del 05.06.02

Certificate of analysis N.1464

Date of production: 12.08.2008

Sample number:	1895-1900	Samples' Directory	2008
Sampling by:	person in charge from the Laboratory (dr.Emidio Borghi)	Date of reception:	16.07.2008
Beginning of the tests:	23.07.2008	End of the tests:	12.08.2008
Customer:	IMPRESIND S.r.l. – str.1 Maggio, 24 – 20064 Gorgonzola (MI)		
Sample description:	<p>n.1 environmental swab on the tank behind the instrument (COLDAIR TA 157) before the cycle on waste water; the instrument is on the roof of the building in Position 1 (North-East). n.2 environmental swab on the tank behind the instrument (COLDAIR TA 157) before the cycle on waste water; the instrument is on the roof of the building in Position 1 (North-East). n.3 Water – drain pipe of the instrument on the 1^o Dep. (on the roof) at the start of the cycle. n.4 Water – drainage tube of the instrument on the 1^o Dep. (on the roof) at the end of the cycle (after 4 h). n.5 Air – Department 1^o (Eliturbo) Internal monitoring with active workers : Decrease in share to 5.5 m (n.1 plate NA - Nutrient Agar) below COLDAIR TA 157 n.6 Air - Department 1^o (Eliturbo) Internal monitoring with active workers: Decrease at half share (n.1 plate NA - Nutrient Agar) below COLDAIR TA 157 n.7 Air Department 1^o (Eliturbo) Internal monitoring with active workers : Decrease at ground - 1.5 m (n.1 plate NA - Nutrient Agar) below COLDAIR TA 157</p>		

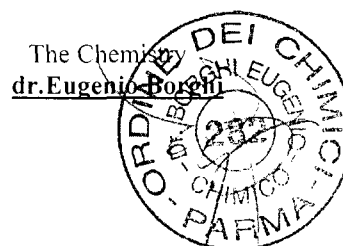
Bacteriological Tests

Examination	Results Sample 1	Results Sample 2	Units	Method (*)
<i>Legionella spp.</i>	Absent	Absent	Pres./Abs. on 100 cm ²	MIM/04

Examination	Results Sample 3	Results Sample 4	Units	Method (*)
<i>Legionella spp.</i>	Absent	Absent	Pres./Abs. on 1000 ml	MIM/04

Examination	Results Sample 5	Results Sample 6	Results Sample 7	Units	Method (*)
<i>Legionella spp.</i>	Absent	Absent	Absent	Pres./Abs. on 1 m ³	MIM/04

(*)=analysis done by external laboratory



The results of the tests refer exclusively to the tested sample.
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Certificate of analysis N.1465

Date of production: 12.08.2008

Sample number:	1901-1907	Samples' Directory	2008
Sampling by:	person in charge from the Laboratory (dr.Emidio Borghi)	Date of reception:	16.07.2008
Beginning of the tests:	23.07.2008	End of the tests:	12.08.2008
Customer:	IMPRESIND S.r.l. – str.1 Maggio, 24 – 20064 Gorgonzola (MI)		
Sample description:	<p>n.1 environmental swab on the tank behind the instrument (COLDAIR FPA 107) before the cycle on waste water; the instrument is on the wall of the building in Position 2 (North/Northwest). n.2 environmental swab on the tank behind the instrument (COLDAIR FPA 107) before the cycle on waste water; the instrument is on the wall of the building in Position 2 (North/Northwest). n.3 Water – drain pipe of the instrument on the 2nd Dep. (on the wall) at the start of the cycle. n.4 Water – drainage tube of the instrument on the 2nd Dep. (on the wall) at the end of the cycle (after 4 h) and at the start of discharge in the sewer. n.5 Water – drainage tube of the instrument on the 2nd Dep. (on the wall) at the end of the cycle (after 4 h) and at the end of discharge in the sewer. n.6 Air – Department 2nd (Stock) Internal monitoring with active workers : Decrease in share to 5.5 m (n.1 plate NA - Nutrient Agar) below COLDAIR FPA 107 n.7 Air - Department 2nd (Stock) Internal monitoring with active workers: Decrease at half share (n.1 plate NA - Nutrient Agar) below COLDAIR FPA 107 n.8 Air- Department 2nd (Stock) Internal monitoring with active workers : Decrease at ground - 1.5 m (n.1 plate NA - Nutrient Agar) below COLDAIR FPA 107</p>		

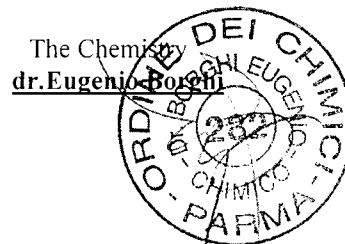
Bacteriological Tests

Examination	Results Sample 1	Results Sample 2	Units	Method (*)
<i>Legionella spp.</i>	Absent	Absent	Pres./Abs. on 100 cm ²	MIM/04

Examination	Results Sample 3	Results Sample 4	Results Sample 5	Units	Method (*)
<i>Legionella spp.</i>	Absent	Absent	Absent	Pres./Abs. on 1000 ml	MIM/04

Examination	Results Sample 6	Results Sample 7	Results Sample 8	Units	Method (*)
<i>Legionella spp.</i>	Absent	Absent	Absent	Pres./Abs. on 1 m ³	MIM/04

(*)=analysis done by external laboratory



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Laboratorio: vicolo S.Clemente, 3- 43043 Borgotaro(PR)-Tel/fax 0525 96848

SR07PR rev.0 del 05.06.02

Certificate of analysis N.1466

Date of production: 12.08.2008

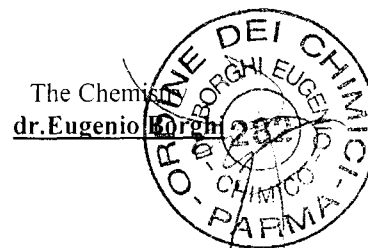
Sample number:	1908	Samples' Directory	2008
Sampling by:	person in charge from the Laboratory (dr.Emidio Borghi)	Date of reception:	16.07.2008
Beginning of the tests:	23.07.2008	End of the tests:	12.08.2008
Customer:	IMPRESIND S.r.l. – str.1 Maggio, 24 – 20064 Gorgonzola (MI)		
Sample description:	Drinking Water from Municipal Service; 1 lt in sterilized Pirex bottle		

Bacteriological Tests

Examination	Results Sample 1	Units	Method (*)
<i>Legionella spp.</i>	Absent	Pres./Abs. on 1000 ml	MIM/04

(*)=analysis done by external laboratory

The Chemist
dr. Eugenio Borghi



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APPLIED MONITORING PROTOCOL

-it should be stated first, that in areas affected by the protocol exist n.2 Heating / Air-Conditioning of the new generation.

It was then pointed exclusively on two installations that are in:

1 ^ Department (ELITURBO) – COLDAIR FPA 107,

2^ Department (STOCK) – COLDAIR TA 157.

The Conditioners were produced by the same Company that wants, on this occasion, an analytical investigation on the *Legionella* risk in its two new equipments (Conditioners) to protect both the internal workers both hypothetical external purchasers (Customers of Companies).

Points monitored by swabs:

1 - tank behind the instrument on the 1st Department (on the roof) / n.2 Swabs

2 - tank behind the instrument on the 2nd Department (on the wall) / n.2 Swabs

TOTAL No 4 Swabs

Points monitored by taking 1 liter of water in sterilized Pyrex bottle:

3 - drain pipe of the instrument on the 1st Department (on the roof) – at the start of the cycle,

4 - drain pipe of the instrument on the 2nd Department (on the wall) – at the start of the cycle,

5 - drainage tube of the instrument on the 1st Department (on the roof) – at the end of the cycle (after 4 h),

6 - drainage tube of the instrument on the 2nd Department (on the wall) – at the end of the cycle (after 4 h) and at the start of discharge into the sewer,

7 - drainage tube of the instrument on the 2nd Department (on the wall) - at the end of the cycle (after 4 h) and at the end of discharge into the sewer,

8 - Bathroom men on the ground Floor- cold water coming directly from the Public Service and that feeds all the instruments and services.

TOTAL n.6 Water Samples

Points monitored by sampling 500 liters of air with SAS Super 90:

9 - Department 1 ^ (Eliturbo) Internal monitoring with active workers:

Decrease in share to 4.5 m (1 plate NA - Nutrient Agar)

10 - Department 1 ^ (Eliturbo):) Internal monitoring with active workers:

Decrease at half share (n.1 plate NA - Nutrient Agar)

11 - Department 1 ^ (Eliturbo) : Internal monitoring with active workers

Decrease at ground - 1.5 m (1 plate NA - Nutrient Agar)

12 - Department 2 ^ (Stock) Internal monitoring with active workers :

Decrease in share to 5.5 m (1 plate NA - Nutrient Agar)

13- Department 2^ (Stock) Internal monitoring with active workers:

Decrease at half share (n.1 plate NA - Nutrient Agar)

14 - Department 2^ (Stock) Internal monitoring with active workers :

Decrease at ground - 1.5 m (1 plate NA - Nutrient Agar)

TOTAL n.6 Air samples

The total of the samples in order to complete this protocol is therefore n.16 samples.

Sampling operations were performed by:

-dott.Emidio Borghi, Industrial Chemistry

-TIBC Sergio Magnani, Technical Biologist

They attended the levies: Dr.Oliviero Pastori and the operator Verzicco Simone

All samples were immediately transferred into portable refrigerator/freezer Pinguin (PBI-International) at 4 ° C and transported to the laboratory of Borgotaro (PR).

The material for the samples (plates, buffers, ...) was also stored at 4 ° C in other department of the same refrigerator/freezer mounted on a Picasso-Citroen (CC 865 NP).

The conditions of sampling indicate:

-T ° external of 32 ° C

-T ° internal of 28 ° C .

Sampling conditions:

a) dust-poor in the wards;

b) good-air (open doors) in the wards.

Conditioning cycle:

- starting with load of drinking water ,

- running of the instrument for 4 consecutive hours,

- end of the cycle and waste water discharged.

CONCLUSIONS: The general standards of hygiene and the suggested practices of behaviour are sufficient to reduce any risk and to consider biological Risk as LOW (or Moderate).

The precautionary measures referred to pag.5, are considered sufficient.

The results of analytical tests on the search for *Legionella* spp. (see certifications) have denoted the an optimal control of the risk In acceptable and compatible terms with the sensitivity of the used analytical Methods.

Methods that draw origin from :

1-G.U.I.-n.103 of 5 May 2000, Annex 2 ^,

2-ISO 11731: 98th

The analytical tests are obviously valid for the two instruments considered and assembled according to business requirements as well as the maintenance measures now in adoption.

The Chemical Hygienist.

Dott.Emidio Borghi

Order of Chemists of Parma, No. 140

